

# TEST REPORT

**Reference No.**..... : WTX24X01019129W001  
**FCC ID**..... : 2A7VD-H7124  
**Applicant**..... : Shenzhen Qianyan Technology LTD  
**Address**..... : No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen, China  
**Manufacturer**..... : Dongguan Songyan Electronics Co., Ltd.  
**Address**..... : Room 401,building 2, No.98 xirong road, tangxia town, Dongguan City, Guangdong, P.R. China  
**Product Name**..... : Smart Air Purifier 2  
**Model No.**..... : H712C  
**Standards**..... : FCC Part 15.247  
**Date of Receipt sample**..... : 2024-01-24  
**Date of Test**..... : 2024-01-24 to 2024-02-10  
**Date of Issue**..... : 2024-04-15  
**Test Report Form No.**..... : WTX\_Part 15\_247W  
**Test Result**..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

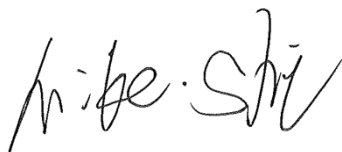
**Prepared By:**

**Waltek Testing Group (Shenzhen) Co., Ltd.**

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**Report version**

Version No.	Date of issue	Description
Rev.00	2024-04-15	Original
/	/	/

# 1. GENERAL INFORMATION

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## 1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Smart Air Purifier 2
Trade Name:	GoveeLife
Model No.:	H712C
Adding Model(s):	/
Rated Voltage:	AC120V
Power Adapter Model:	/
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)
RF Output Power:	21.57dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20); 7 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	PCB Antenna
Antenna Gain:	3.38dBi
<i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

## 1.2 Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.247**: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

**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.

**ANSI C63.10-2013**: American National Standard for Testing Unlicensed Wireless Devices.

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

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02.

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

## 1.4 Test Facility

### **Address of the test laboratory**

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

### **FCC – Registration No.: 125990**

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### **Industry Canada (IC) Registration No.: 11464A**

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM4	802.11n-HT40	Low:2422MHz, Middle:2437MHz,High:2452MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
AC Cable	1.8	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

## 1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	±0.42dB
Occupied Bandwidth	Conducted	±1.5%
Power Spectral Density	Conducted	±1.8dB
Conducted Spurious Emission	Conducted	±2.17dB
Conducted Emissions	Conducted	9-150kHz ±3.74dB
		0.15-30MHz ±3.34dB
Transmitter Spurious Emissions	Radiated	30-200MHz ±4.52dB
		0.2-1GHz ±5.56dB
		1-6GHz ±3.84dB
		6-26GHz ±3.92dB

**1.7 Test Equipment List and Details**

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2023-02-25	2024-02-24
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2023-02-25	2024-02-24
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2023-02-25	2024-02-24
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2023-02-25	2024-02-24
<input type="checkbox"/> Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2023-02-25	2024-02-24
WTXE1007A 1001	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/00 5	2023-02-25	2024-02-24
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2023-02-25	2024-02-24
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2023-03-20	2026-03-19
<input type="checkbox"/> Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2023-02-25	2024-02-24
WTXE1007A 1001	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/00 5	2023-02-25	2024-02-24
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	14918	2023-02-25	2024-02-24
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2021-03-19	2024-03-18
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24
<input type="checkbox"/> Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2024-04-08
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19



WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2023-02-25	2024-02-24
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2023-02-25	2024-02-24
<input checked="" type="checkbox"/> Chamber C: Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2024-05-27
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2023-02-25	2024-02-24
<input checked="" type="checkbox"/> Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2023-02-25	2024-02-24
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24
<input type="checkbox"/> Conducted Room 1#						
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2023-02-25	2024-02-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2023-02-25	2024-02-24
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2023-02-25	2024-02-24
<input checked="" type="checkbox"/> Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2023-02-25	2024-02-24
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2023-02-25	2024-02-24

<b>Software List</b>			
<b>Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Version</b>
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 1#)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 2#)*	SKET	EMC-I	V2.0

\*Remark: indicates software version used in the compliance certification testing.

## 2. SUMMARY OF TEST RESULTS

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FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	N/A
§15.247(a)(2)	DTS Bandwidth	N/A
§15.247(b)(3)	RF Output Power	N/A
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	N/A

Class II Permissive Change: The H7124 is identical to the H712C except for a different model number, control panel, and colour, but the H7124 is equipped with an air sensor, which the H712C does not have.

Note: Report is for Class II Permissive Change only. Updated test data include Antenna Requirement, Restricted Band of Operation, Conducted Emission and Radiated Emission. Other test data refer to the original report WTX24X01019107W001, The original FCC ID issue date: 05/17/2024

### **3. Antenna Requirement**

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#### **3.1 Standard Applicable**

According to FCC Part 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.

#### **3.2 Evaluation Information**

This product has a PCB antenna, fulfill the requirement of this section.

## 4. Field Strength of Spurious Emissions

### 4.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

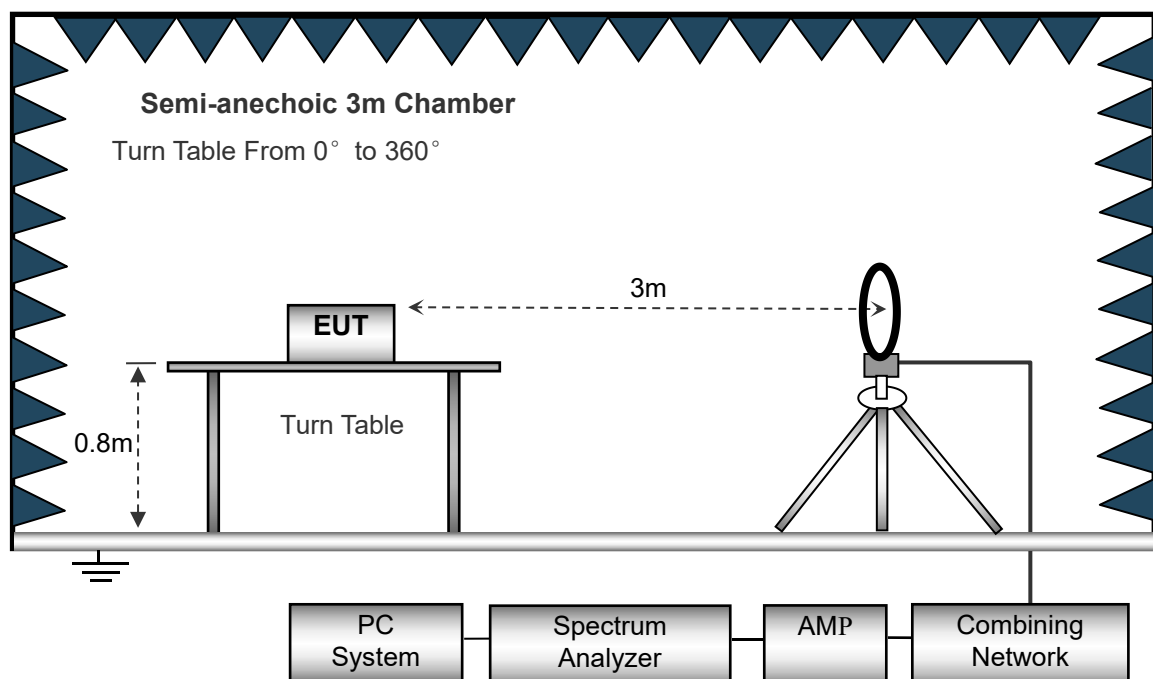
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 4.2 Test Procedure

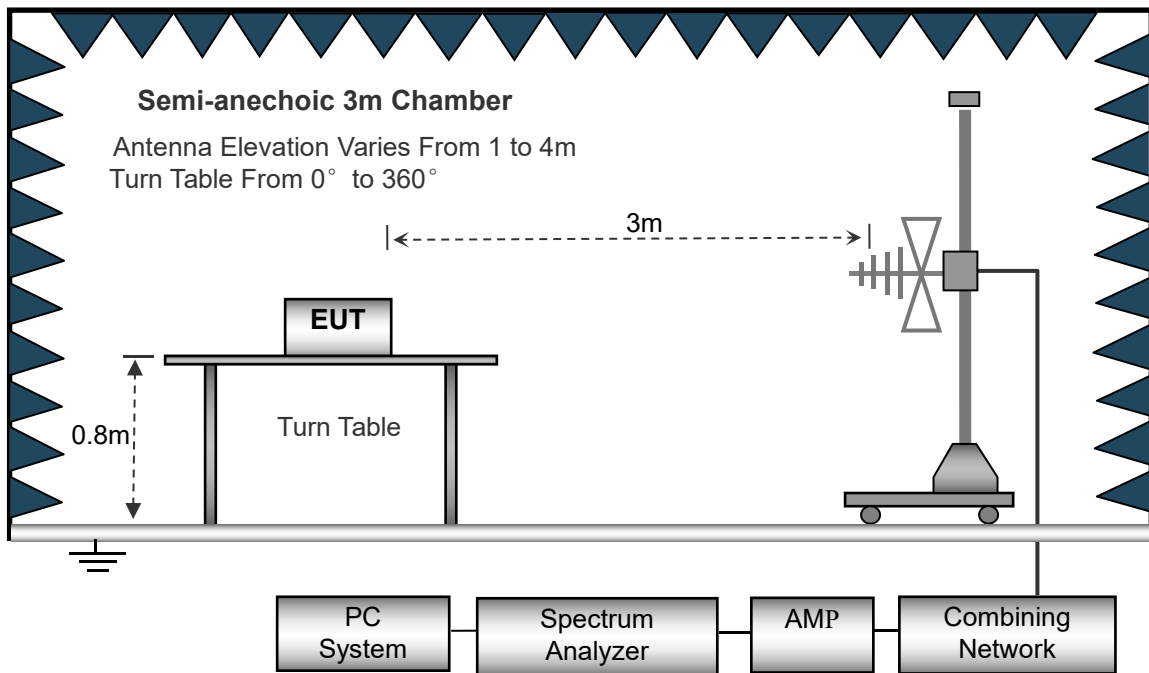
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

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

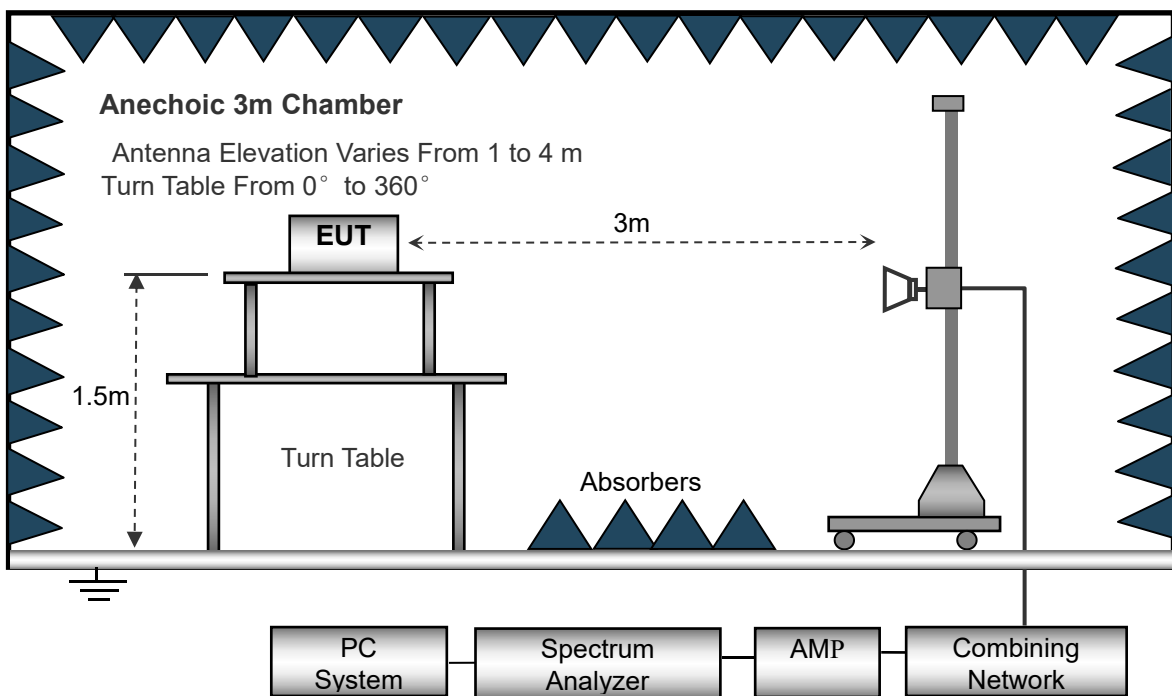
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz	Frequency :30MHz-1GHz	Frequency :Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

### 4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit. The equation for margin calculation is as follows:

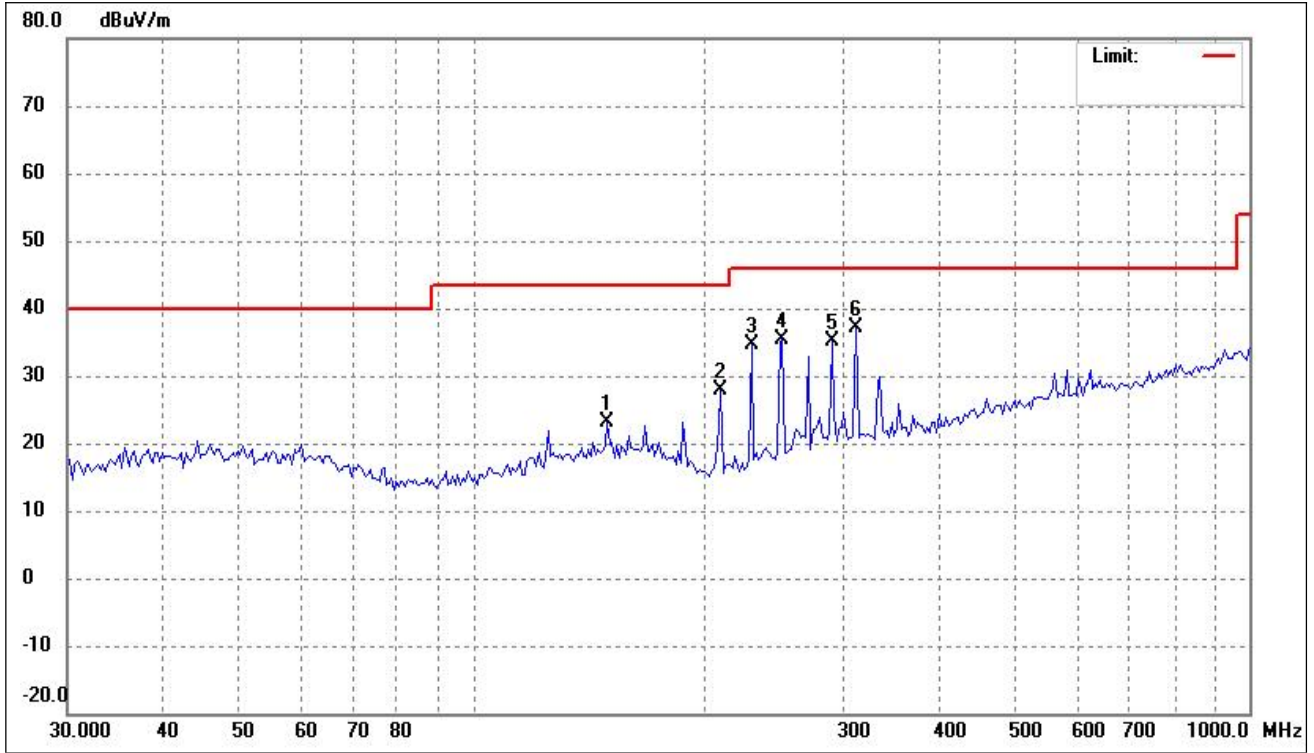
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

### 4.4 Summary of Test Results/Plots

*Note: 1. This EUT was tested in 3 orthogonal positions and the worst case position data was reported. All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b\_11Mbps) is recorded in this report.*

- For power board model: H7124\_POWER\_V1.0
- Spurious Emissions Below 1GHz

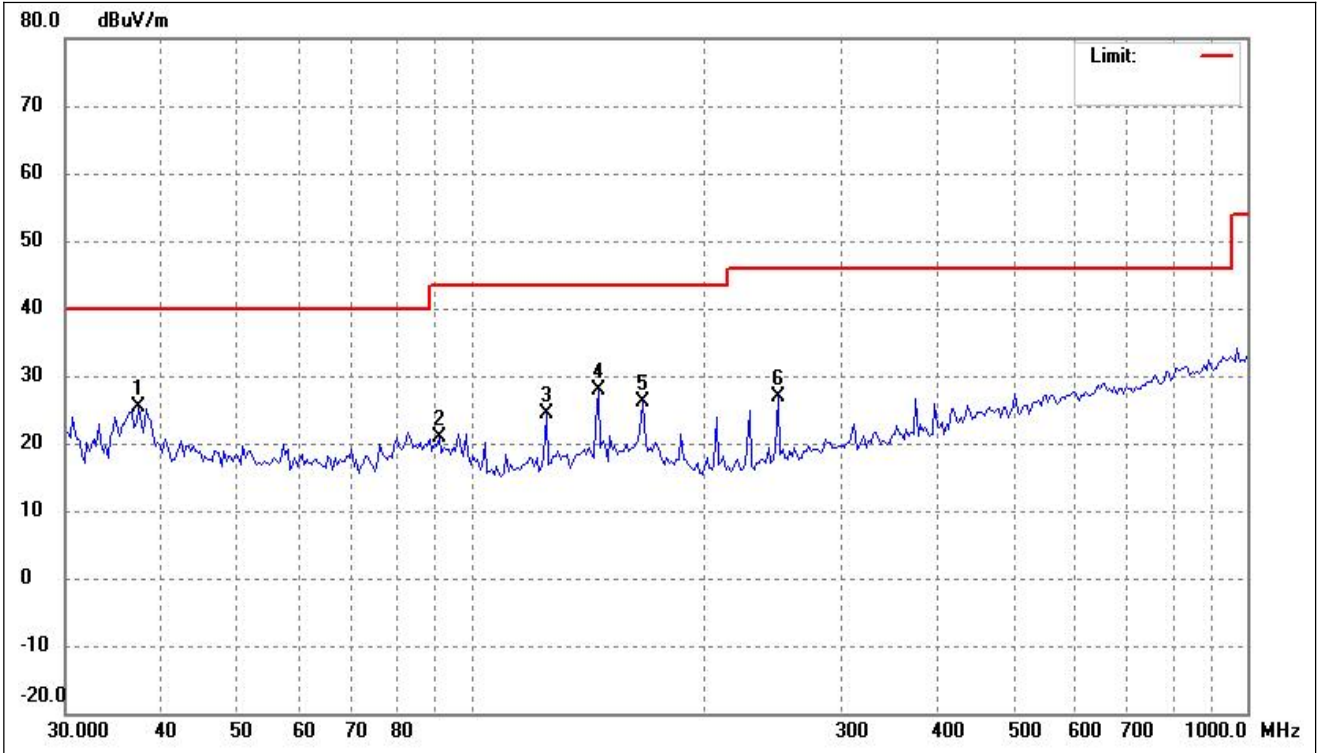
802.11b_11Mbps			
Test Channel	Low(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	148.9175	31.79	-8.68	23.11	43.50	-20.39	-	-	peak
2	208.6580	39.99	-12.17	27.82	43.50	-15.68	-	-	peak
3	228.6173	46.29	-11.70	34.59	46.00	-11.41	-	-	peak
4	250.4859	45.68	-10.18	35.50	46.00	-10.50	-	-	peak
5	290.3170	43.77	-8.58	35.19	46.00	-10.81	-	-	peak
6	311.4519	44.96	-7.93	37.03	46.00	-8.97	-	-	peak



802.11b_11Mbps			
Test Channel	Low(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	37.3017	34.48	-9.06	25.42	40.00	-14.58	-	-	peak
2	91.0574	33.86	-13.04	20.82	43.50	-22.68	-	-	peak
3	124.9249	34.53	-10.19	24.34	43.50	-19.16	-	-	peak
4	145.8109	36.72	-8.95	27.77	43.50	-15.73	-	-	peak
5	166.6385	35.04	-8.79	26.25	43.50	-17.25	-	-	peak
6	248.7319	37.18	-10.26	26.92	46.00	-19.08	-	-	peak

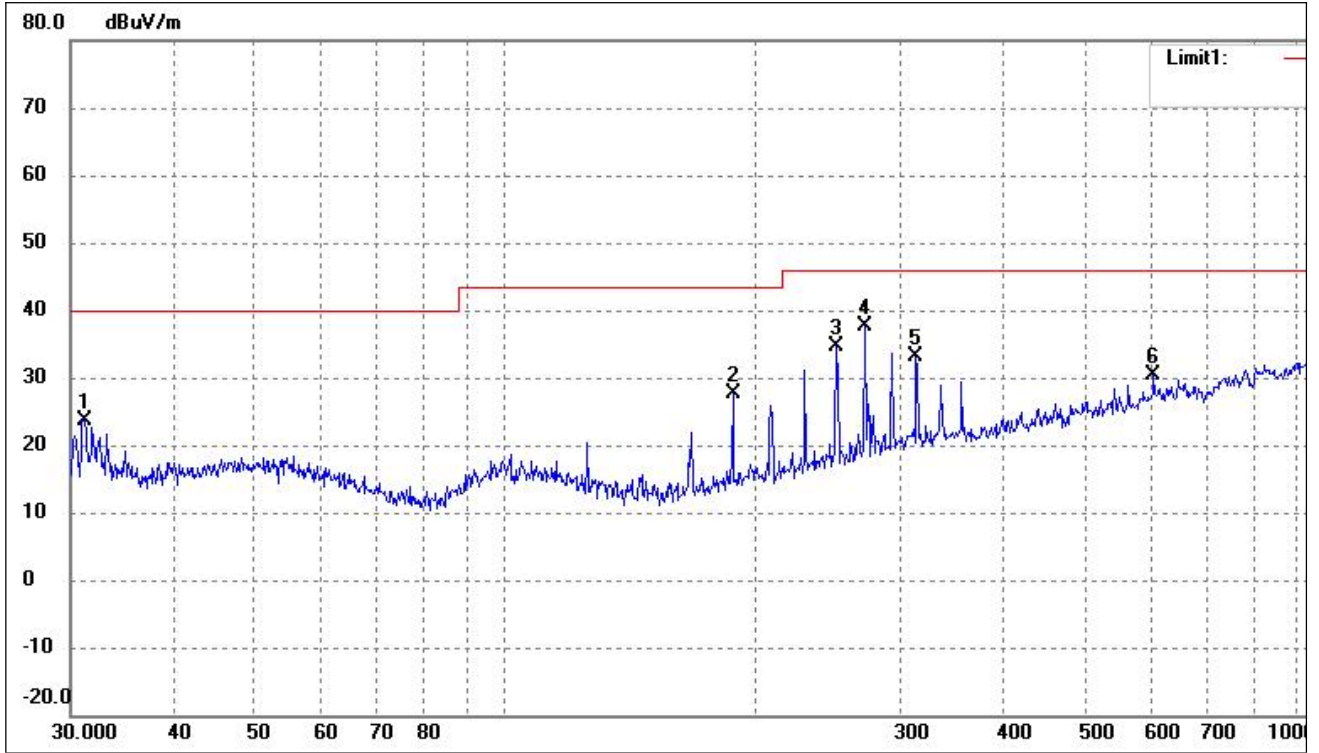
- Spurious Emissions Above 1GHz
- Test Mode: 802.11b\_11Mbps (worst case)

Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.00	54.76	-4.50	50.26	74	-23.74	H	PK
4824.00	52.56	-4.50	48.06	54	-5.94	H	AV
7236.00	55.26	1.14	56.40	74	-17.60	H	PK
7236.00	45.72	1.14	46.86	54	-7.14	H	AV
4824.00	52.69	-4.50	48.19	74	-25.81	V	PK
4824.00	52.08	-4.50	47.58	54	-6.42	V	AV
7236.00	52.81	1.14	53.95	74	-20.05	V	PK
7236.00	44.32	1.14	45.46	54	-8.54	V	AV
Middle Channel-2437MHz							
4874.00	56.19	-4.44	51.75	74	-22.25	H	PK
4874.00	51.21	-4.44	46.77	54	-7.23	H	AV
7311.00	55.37	1.79	57.16	74	-16.84	H	PK
7311.00	44.77	1.79	46.56	54	-7.44	H	AV
4874.00	53.77	-4.44	49.33	74	-24.67	V	PK
4874.00	51.78	-4.44	47.34	54	-6.66	V	AV
7311.00	53.84	1.79	55.63	74	-18.37	V	PK
7311.00	45.17	1.79	46.96	54	-7.04	V	AV
High Channel-2462MHz							
4924.00	56.75	-4.39	52.36	74	-21.64	H	PK
4924.00	50.48	-4.39	46.09	54	-7.91	H	AV
7386.00	55.08	1.83	56.91	74	-17.09	H	PK
7386.00	44.65	1.83	46.48	54	-7.52	H	AV
4924.00	52.75	-4.39	48.36	74	-25.64	V	PK
4924.00	49.97	-4.39	45.58	54	-8.42	V	AV
7386.00	51.20	1.83	53.03	74	-20.97	V	PK
7440.00	44.21	1.83	46.04	54	-7.96	V	AV

*Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*

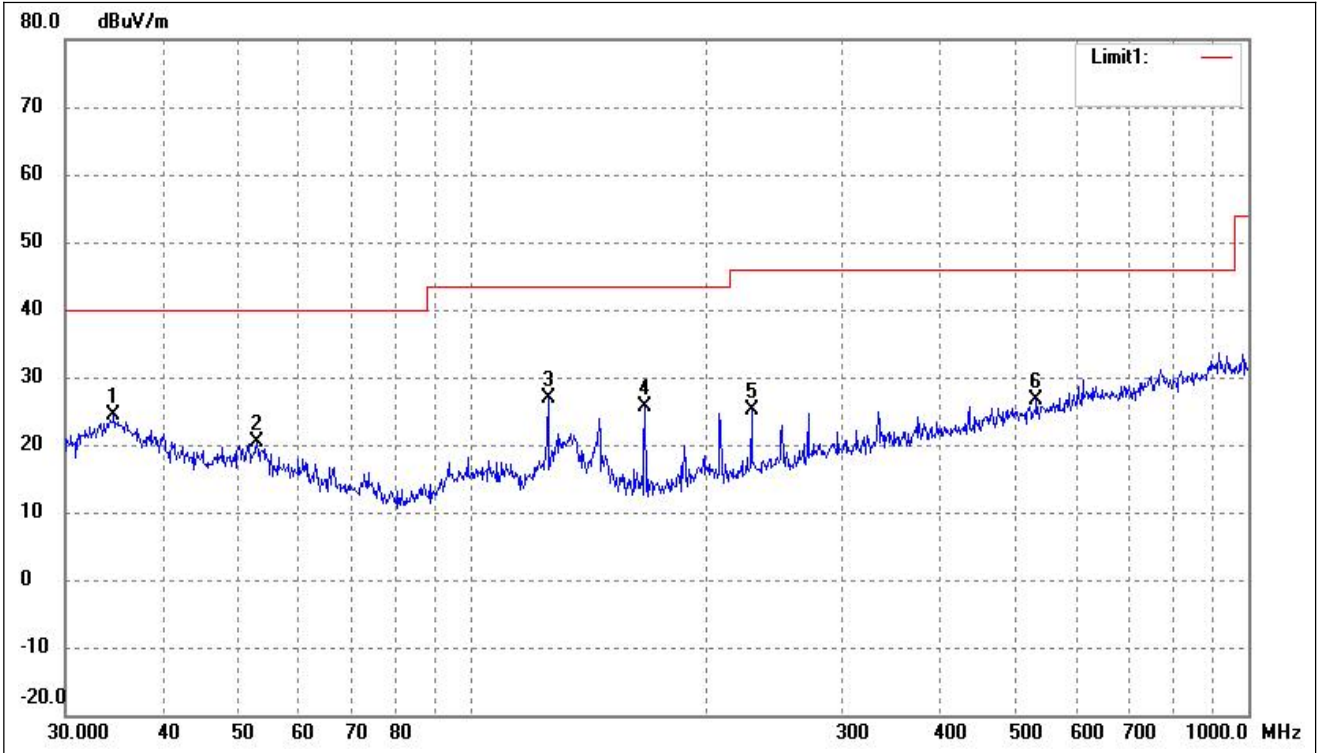
- For power board model: HYS48-24ZY22
- Spurious Emissions Below 1GHz

802.11b_11Mbps			
Test Channel	Low(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	31.1798	35.09	-11.40	23.69	40.00	-16.31	-	-	peak
2	188.4125	36.66	-8.98	27.68	43.50	-15.82	-	-	peak
3	251.1804	41.22	-6.56	34.66	46.00	-11.34	-	-	peak
4	272.2776	43.72	-5.99	37.73	46.00	-8.27	-	-	peak
5	313.2760	37.86	-4.70	33.16	46.00	-12.84	-	-	peak
6	605.6592	29.15	1.33	30.48	46.00	-15.52	-	-	peak

802.11b_11Mbps			
Test Channel	Low(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	34.6385	34.79	-10.41	24.38	40.00	-15.62	-	-	peak
2	52.9453	28.28	-8.02	20.26	40.00	-19.74	-	-	peak
3	125.4457	37.97	-11.00	26.97	43.50	-16.53	-	-	peak
4	167.2367	36.63	-10.93	25.70	43.50	-17.80	-	-	peak
5	229.2931	32.44	-7.35	25.09	46.00	-20.91	-	-	peak
6	533.8320	27.27	-0.69	26.58	46.00	-19.42	-	-	peak

Remark: '-' Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

## 5. Conducted Emissions

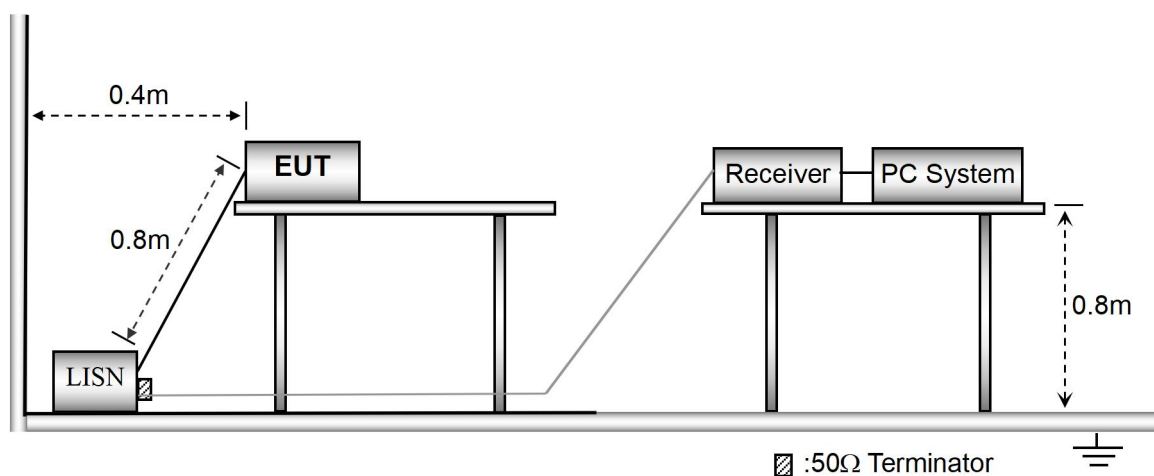
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### 5.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

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

### 5.2 Basic Test Setup Block Diagram



### 5.3 Test Receiver Setup

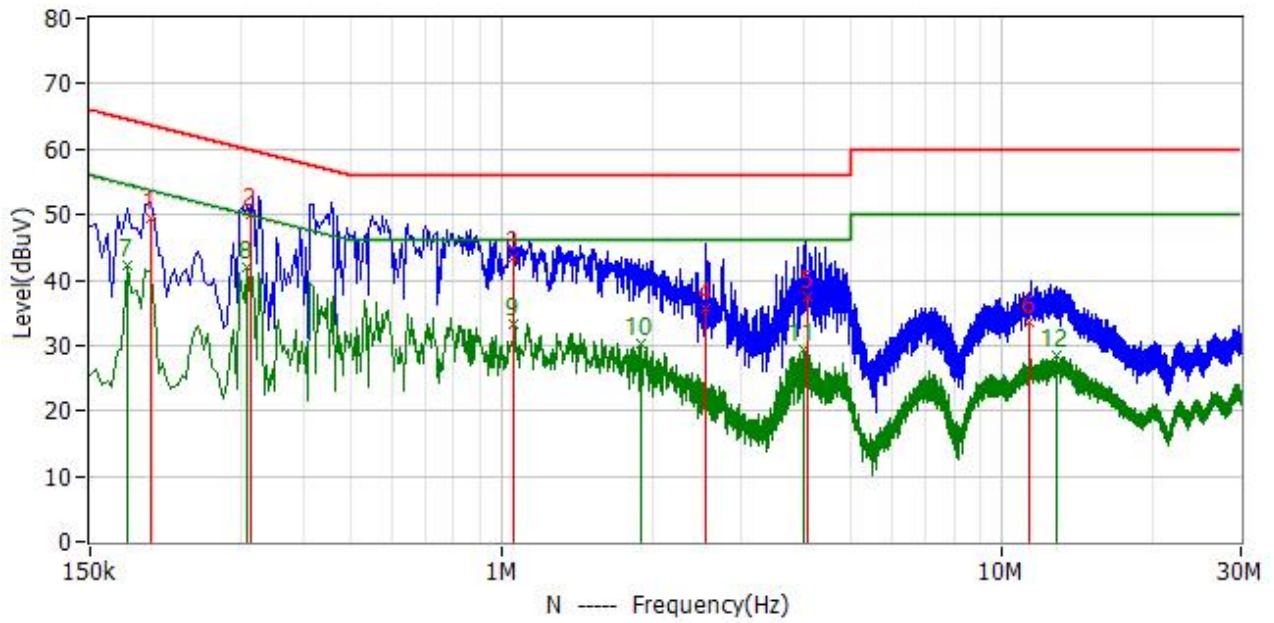
During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency.....	150kHz
Stop Frequency.....	30MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth.....	9kHz
Quasi-Peak Adapter Mode.....	Normal

### 5.4 Summary of Test Results/Plots

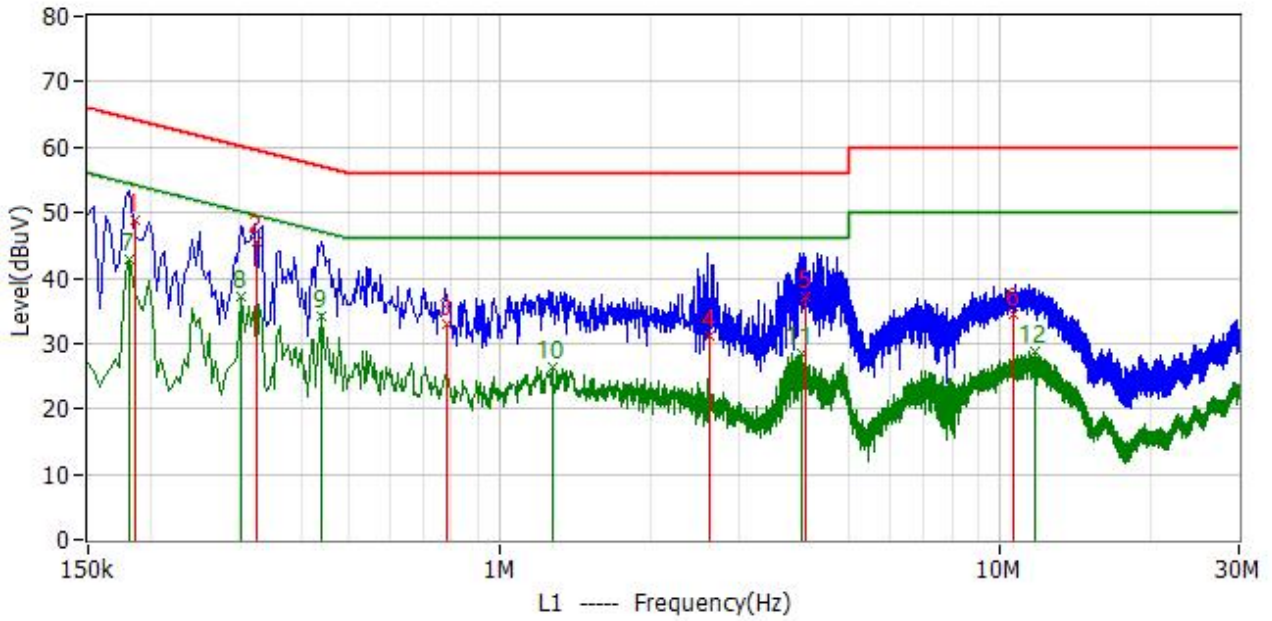
**Worst case power board model: H7124\_POWER\_V1.0**

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	198.000kHz	39.6	9.7	49.3	63.7	-14.4	QP
2	314.000kHz	40.1	10.0	50.1	59.9	-9.8	QP
3	1.050MHz	33.7	9.7	43.4	56.0	-12.6	QP
4	2.562MHz	26.1	9.7	35.8	56.0	-20.2	QP
5	4.074MHz	27.6	9.8	37.4	56.0	-18.6	QP
6	11.334MHz	23.7	9.8	33.5	60.0	-26.5	QP
7*	178.000kHz	32.6	9.7	42.3	54.6	-12.3	AV
8*	310.000kHz	32.0	10.0	42.0	50.0	-8.0	AV
9*	1.054MHz	23.7	9.7	33.4	46.0	-12.6	AV
10*	1.890MHz	20.5	9.7	30.2	46.0	-15.8	AV
11*	4.022MHz	19.5	9.8	29.3	46.0	-16.7	AV
12*	12.838MHz	18.8	9.8	28.6	50.0	-21.4	AV

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	186.000kHz	39.0	9.7	48.7	64.2	-15.6	QP
2	326.000kHz	35.5	10.1	45.6	59.6	-13.9	QP
3	782.000kHz	23.1	9.8	32.9	56.0	-23.1	QP
4	2.622MHz	21.4	9.9	31.3	56.0	-24.7	QP
5	4.070MHz	27.2	9.9	37.1	56.0	-18.9	QP
6	10.638MHz	24.8	9.8	34.6	60.0	-25.4	QP
7*	182.000kHz	33.0	9.7	42.7	54.4	-11.6	AV
8*	302.000kHz	27.1	10.1	37.2	50.2	-13.0	AV
9*	438.000kHz	24.5	9.8	34.3	47.1	-12.8	AV
10*	1.270MHz	16.6	9.8	26.4	46.0	-19.6	AV
11*	4.014MHz	18.5	9.9	28.4	46.0	-17.6	AV
12*	11.690MHz	18.9	9.8	28.7	50.0	-21.3	AV

## APPENDIX PHOTOGRAPHS

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Please refer to "ANNEX"

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