

FCC Test Report

Report No.: AGC12845221006FE02A

FCC ID : 2A9RD-SVBR01CL
APPLICATION PURPOSE : Class II Permissive Change
PRODUCT DESIGNATION : Cleaning Robot
BRAND NAME : Sveabot
MODEL NAME : SVBR01CL
APPLICANT : Sveabot Tek AB
DATE OF ISSUE : Jun. 11, 2025
STANDARD(S) : FCC Part 15 Subpart C §15.247
REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 11, 2025	Valid	Initial Release

Note: The original test report AGC12845221006FE02 (dated Jan. 17, 2023 and tested from Nov. 21, 2022 to Jan. 17, 2023) was modified on Jun. 11, 2025, including the following changes and additions:

SVBR01CL(S100 Pro R):

The tail floor mopping module and flat mop have been replaced with a floor cleaning brush and a water absorbing mat structure.

Structural change of sewage tank.

Laser ranging module changed to 3D radar.

2D radar inversion.

Thickening of charging electrode plates.

Move the manual charging port to the left side.

The structure of the water tank tray has been changed, and the position of the dust box has been moved to the left.

Add 3D LiDAR components and radar interface wiring harness.

Cancel the TOF sensors on both sides of the casing.

Add three-way valve.

Replace the fan and driver matching.

Cancel carpet sensor and air duct heating.

The charging circuit control only retains the positive contactor.

Remove the rear roller brush cooling fan and move it to the front for overall cooling.

The front roller brush motor control and temperature acquisition are integrated into one connector.

Add a small A3 algorithm board.

Change single touch edge to double touch edge.

Replace Bluetooth antenna.

SVBR01CL(S100 Pro M):

L0054838_Upper shell: changed to install 3D radar, appearance changes.

L0054838_Upper shell: The horn has been changed from being assembled on the upper shell to being assembled on the upper shell layer board.

Add a L0048902-3D radar mounting plate.

Add cooling fans and ventilation holes on the upper shell(L0054840) layer board.

The laser radar has been adjusted from the lower shell layer board to be installed on the upper shell layer board.

The opening for assembling the laser radar has been removed from the outer layer of the lower shell L0043182, and it has become a flat surface.

Add 3D LiDAR components and radar interface wiring harness.

Cancel the TOF sensors on both sides of the casing.

New front machine cooling fan.

Add a small A3 algorithm board.

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Change single touch edge to double touch edge.

Replace Bluetooth antenna

For the above described change(s) the following tests was considered to be necessary:

Clause	Testing
15.209	Radiated Emission
15.207	Conducted Emission

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1. General Information

Applicant	Sveabot Tek AB
Address	Hogmossevagen 11, SE-641 39, Katrineholm, Sweden
Manufacturer	Sveabot Tek AB
Address	Hogmossevagen 11, SE-641 39, Katrineholm, Sweden
Factory	FJ Dynamics Technology (Fujian) Co., Ltd.
Address	Unit 3, Yimei Zhineng Industrial Park, No. 30 Zihui Avenue, Nanyu Town, Gaoxin District, Fuzhou City, Fujian Province, China
Product Designation	Cleaning Robot
Brand Name	Sveabot
Test Model	SVBR01CL
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Apr. 24, 2025
Date of Test	Apr. 24, 2025 to Jun. 11, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-BLE-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By



CiCi Li
(Project Engineer)

Jun. 11, 2025

Reviewed By



Bibo Zhang
(Reviewer)

Jun. 11, 2025

Approved By



Angela Li
(Authorized Officer)

Jun. 11, 2025

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2. Product Information

2.1 Product Technical Description

Technology Type	Bluetooth Low Energy
Frequency Band	2400MHz-2483.5MHz
Operation Frequency Range	2402MHz-2480MHz
Bluetooth Version	V4.2
Modulation Type	BLE <input checked="" type="checkbox"/> GFSK 1Mbps <input type="checkbox"/> GFSK 2Mbps
Number of channels	40
Carrier Frequency of Each Channel	40 Channels (37 Data channels + 3 Advertising channels)
Channel Separation	2 MHz
Maximum Transmitter Power	0.275dBm
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	Dipole Antenna
Antenna Gain	3.2dBi
Power Supply	DC 50.4V by battery or DC 58.8V by adapter
Adapter Information	Model Name: FY58809500 Rated Input: 100-240V, 50/60Hz, 7.5A Rated Output: DC 58.8V, 9.5A
Note:	
The product model SVBR01CL has two factory prototypes, namely S100 Pro R (#1) and S100 Pro M (#2).	

2.2 Test Frequency List

Frequency Band	Channel Number	Test Frequency
2400~2483.5MHz	0	2402 MHz
	1	2404 MHz
	:	:
	19	2440MHz
	:	:
	38	2478 MHz
	39	2480 MHz

Note: $f = 2402 + 2*k$ MHz, $k = 0, \dots, 39$ f is the operating frequency (MHz); k is the operating channel.

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2A9RD-SVBR01CL**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

2.5 Special Accessories

Not available for this EUT intended for grant.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Antenna Requirement

Standard Requirement
15.203 requirement: 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, 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.
15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi
EUT Antenna
The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 3.2dBi.

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3. Test Environment

3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (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 with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 Environmental Conditions

Normal Conditions	
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 50.4V by battery or DC 58.8V by adapter

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF Power, Conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF Power Density, Conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of Spurious Emissions, Conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$
Uncertainty of Dwell Time	$U_c = \pm 2 \%$

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3.5 List of Equipment Use

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input type="checkbox"/>	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2025-01-14	2026-01-13
<input checked="" type="checkbox"/>	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
<input checked="" type="checkbox"/>	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
<input checked="" type="checkbox"/>	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
<input checked="" type="checkbox"/>	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
<input checked="" type="checkbox"/>	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
<input checked="" type="checkbox"/>	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
<input checked="" type="checkbox"/>	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2025-05-16	2026-05-15
<input checked="" type="checkbox"/>	AGC-EM-A138	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08
<input checked="" type="checkbox"/>	AGC-EM-A138	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15
<input type="checkbox"/>	AGC-EM-A139	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08
<input type="checkbox"/>	AGC-EM-A139	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
<input checked="" type="checkbox"/>	AGC-EM-A130	6dB Attenuator	Eatsheep	LM-XX-6-5W	DC-6GZ	2023-06-09	2025-06-08
<input checked="" type="checkbox"/>	AGC-EM-A130	6dB Attenuator	Eatsheep	LM-XX-6-5W	DC-6GZ	2025-05-16	2027-05-15
<input checked="" type="checkbox"/>	AGC-EM-E023	AMN	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
<input checked="" type="checkbox"/>	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
<input checked="" type="checkbox"/>	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
<input type="checkbox"/>	AGC-EM-S004	RE Test System	Tonscend	TS+Ver2.1(JS32-RE)	4.0.0.0
<input checked="" type="checkbox"/>	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

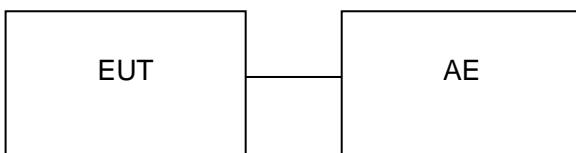
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



Conducted Emission Configure:



4.4 Equipment Used In Tested System

The following peripheral devices and interface cables were connected during the measurement:

Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	--	--	--	--	--

Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	--	--	--	--	--

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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.209	Radiated Emission& Band Edge	Pass
2	§15.207	AC Power Line Conducted Emission	Pass

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5. Description of Test Modes

Summary Table of Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth-LE(1Mbps)/GFSK
Radiated & Conducted Test Cases	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps(Battery powered or AC/DC adapter) Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps(Battery powered or AC/DC adapter) Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps(Battery powered or AC/DC adapter)
AC Conducted Emission	Mode 1: Bluetooth Link + Battery + USB Cable (Charging from AC Adapter)

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. The battery is full-charged during the test.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
4. For Conducted Test method, a temporary antenna connector is provided by the manufacturer.
5. The manufacturer of RF external cable claims that the cable loss is 0.5dB, and the cable loss and attenuator have been compensated into the Corrections Configuration of measuring equipment.
6. Input correction factor includes external cable loss and attenuator amplitude compensation. The formula is:
Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)

Software Setting Diagram



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6. Radiated Spurious Emission

6.1 Measurement Limit

- FCC Part 15.209 Limit in the below table to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement 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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

6.2 Measurement Procedure

1. The EUT was placed on the top of the turntable 0.1 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

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8. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
9. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
10. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
11. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

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- **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

- **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

- **Average Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq [3 \times \text{RBW}]$
4. Detector = Power averaging (rms)
5. Averaging type = power (i.e., rms)
6. Sweep time = auto
7. Perform a trace average of at least 100 traces.
8. The applicable correction factor is $[10^{\log (1 / D)}]$, where D is the duty cycle. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.

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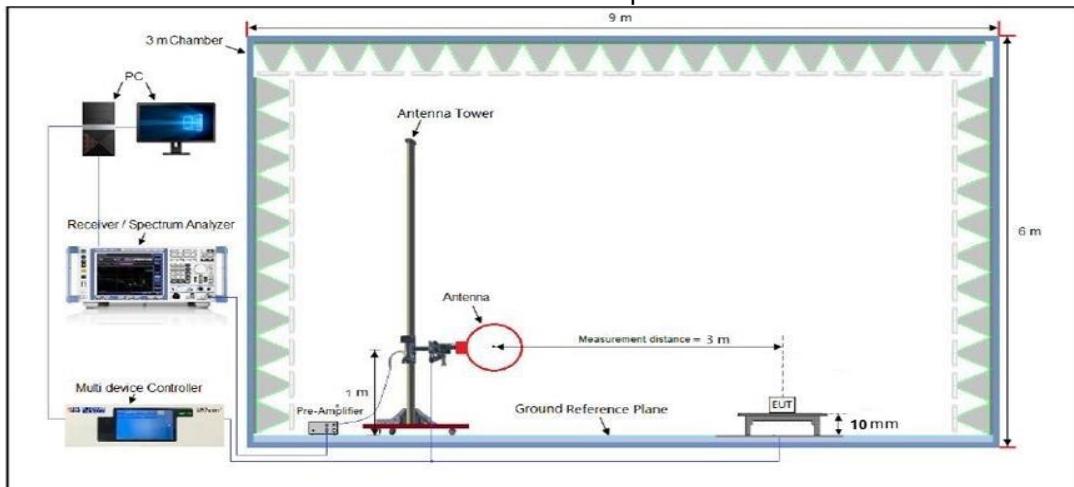
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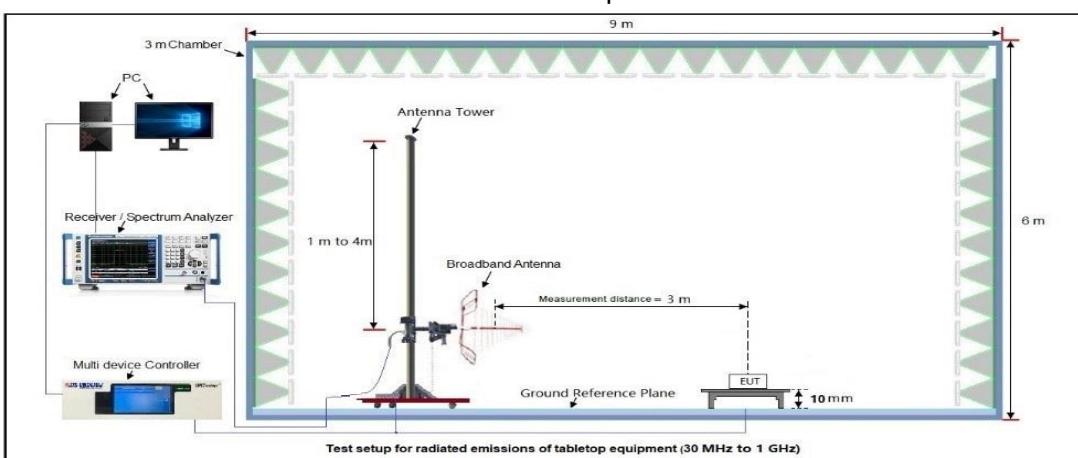
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11.3 Measurement Setup (Block Diagram of Configuration)

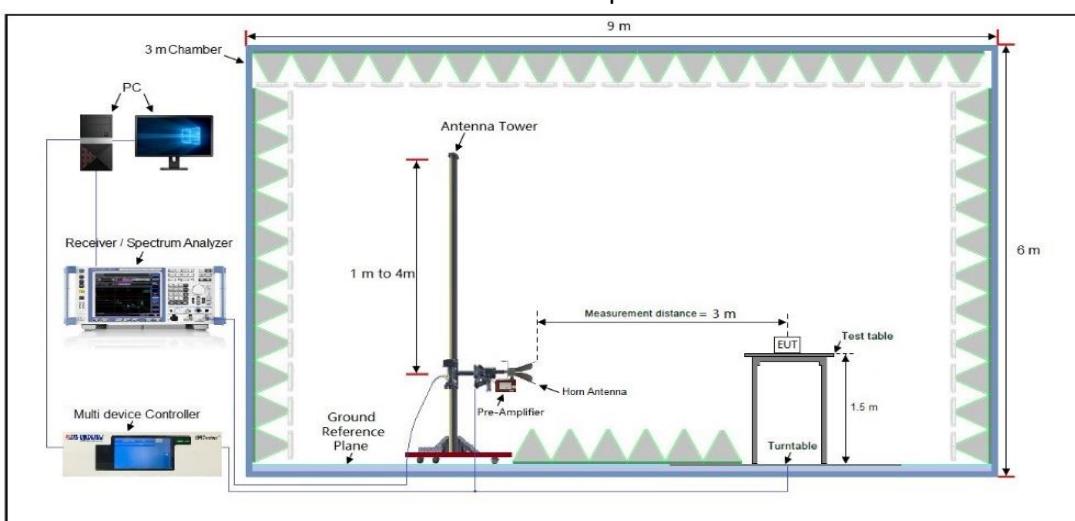
Radiated Emission Test Setup 9kHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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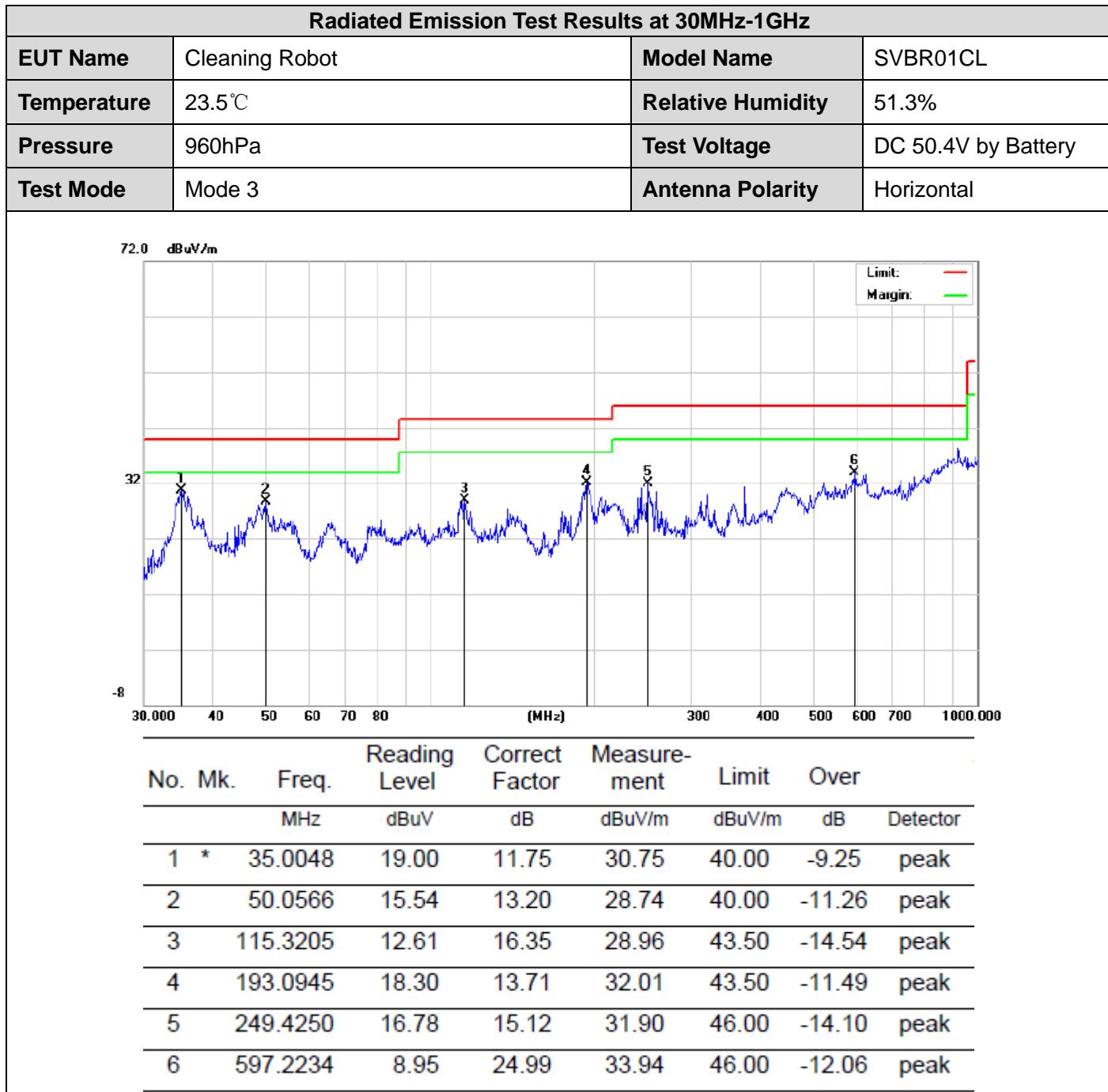
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11.4 Measurement Result

Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

#1



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Radiated Emission Test Results at 30MHz-1GHz							
EUT Name	Cleaning Robot			Model Name	SVBR01CL		
Temperature	23.5°C			Relative Humidity	51.3%		
Pressure	960hPa			Test Voltage	DC 50.4V by Battery		
Test Mode	Mode 3			Antenna Polarity	Vertical		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	*	35.4992	21.41	15.41	36.82	40.00	-3.18
2	!	66.9668	18.83	17.03	35.86	40.00	-4.14
3		114.1137	20.73	16.67	37.40	43.50	-6.10
4	!	144.8418	19.63	18.20	37.83	43.50	-5.67
5	!	195.8220	21.80	18.03	39.83	43.50	-3.67
6		958.7943	6.40	30.25	36.65	46.00	-9.35

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 3 is the worst case and recorded in the report.

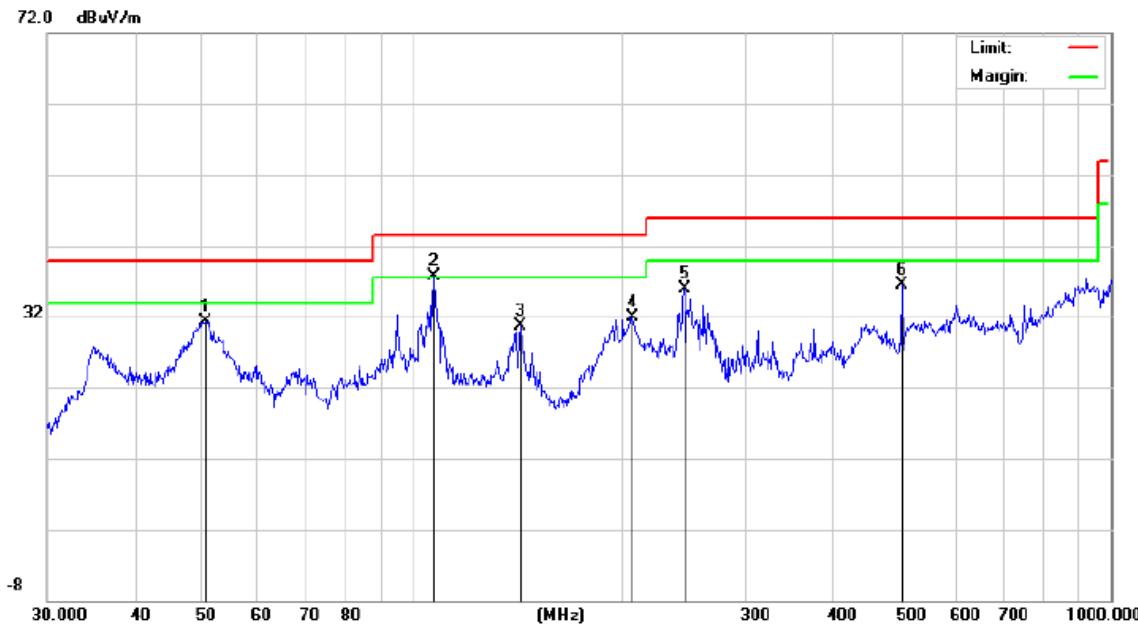
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#2

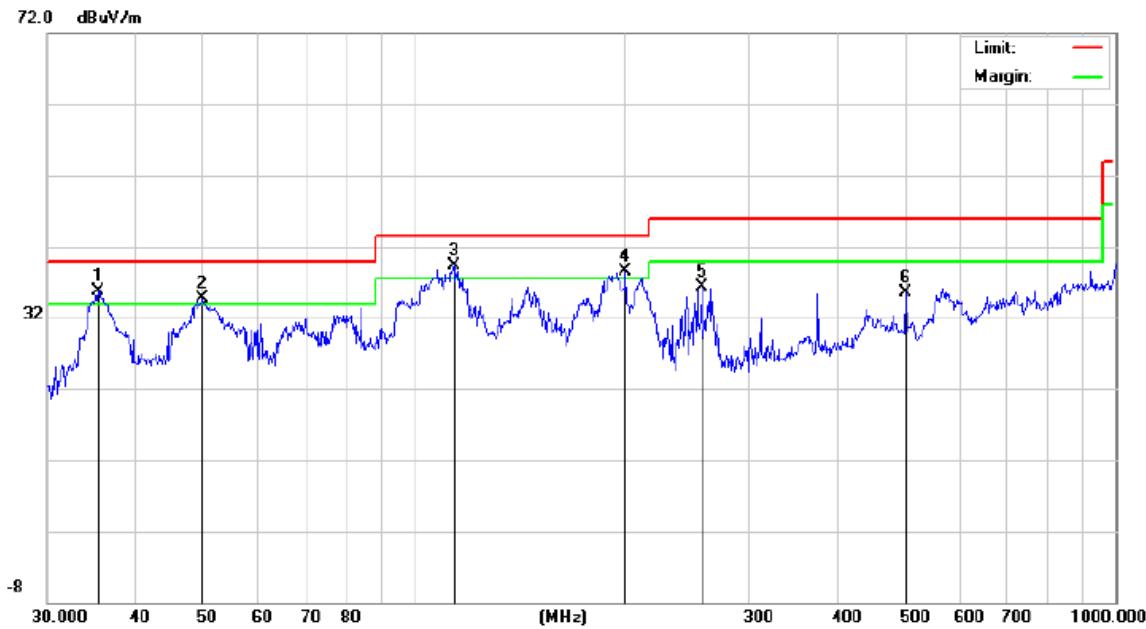
Radiated Emission Test Results at 30MHz-1GHz							
EUT Name	Cleaning Robot			Model Name	SVBR01CL		
Temperature	23.5°C			Relative Humidity	51.3%		
Pressure	960hPa			Test Voltage	DC 50.4V by Battery		
Test Mode	Mode 3			Antenna Polarity	Horizontal		
							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1		50.5860	18.11	13.16	31.27	40.00	-8.73
2	*	107.1337	21.42	16.27	37.69	43.50	-5.81
3		142.8243	15.84	14.79	30.63	43.50	-12.87
4		206.3976	17.38	14.47	31.85	43.50	-11.65
5		245.0900	20.64	15.25	35.89	46.00	-10.11
6		501.1790	14.22	22.28	36.50	46.00	-9.50

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Radiated Emission Test Results at 30MHz-1GHz							
EUT Name	Cleaning Robot			Model Name	SVBR01CL		
Temperature	23.5°C			Relative Humidity	51.3%		
Pressure	960hPa			Test Voltage	DC 50.4V by Battery		
Test Mode	Mode 3			Antenna Polarity	Vertical		
							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	!	35.3750	20.27	15.37	35.64	40.00	-4.36
2	!	49.8813	17.76	17.00	34.76	40.00	-5.24
3	*	113.7142	22.74	16.60	39.34	43.50	-4.16
4	!	199.9856	20.58	17.90	38.48	43.50	-5.02
5		256.5210	18.77	17.61	36.38	46.00	-9.62
6		501.1789	11.45	24.05	35.50	46.00	-10.50

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 3 is the worst case and recorded in the report.

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#1
Radiated Emissions Test Results for Above 1GHz

EUT Name	Cleaning Robot		Model Name	SVBR01CL		
Temperature	23.5°C		Relative Humidity	51.3%		
Pressure	960hPa		Test Voltage	DC 50.4V by Battery		
Test Mode	Mode 1		Antenna Polarity	Horizontal		

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4804.000	47.36	0.08	47.44	74	-26.56	peak
4804.000	38.54	0.08	38.62	54	-15.38	AVG
7206.000	42.16	2.21	44.37	74	-29.63	peak
7206.000	31.69	2.21	33.9	54	-20.1	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Cleaning Robot		Model Name	SVBR01CL		
Temperature	23.5°C		Relative Humidity	51.3%		
Pressure	960hPa		Test Voltage	DC 50.4V by Battery		
Test Mode	Mode 1		Antenna Polarity	Vertical		

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4804.000	48.62	0.08	48.7	74	-25.3	peak
4804.000	38.52	0.08	38.6	54	-15.4	AVG
7206.000	42.16	2.21	44.37	74	-29.63	peak
7206.000	31.35	2.21	33.56	54	-20.44	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Cleaning Robot		Model Name	SVBR01CL	
Temperature	23.5°C		Relative Humidity	51.3%	
Pressure	960hPa		Test Voltage	DC 50.4V by Battery	
Test Mode	Mode 2		Antenna Polarity	Horizontal	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4880.000	47.69	0.14	47.83	74	-26.17	peak
4880.000	37.54	0.14	37.68	54	-16.32	Avg
7320.000	42.16	2.36	44.52	74	-29.48	peak
7320.000	31.26	2.36	33.62	54	-20.38	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Cleaning Robot		Model Name	SVBR01CL		
Temperature	23.5°C		Relative Humidity	51.3%		
Pressure	960hPa		Test Voltage	DC 50.4V by Battery		
Test Mode	Mode 2		Antenna Polarity	Vertical		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4880.000	47.95	0.14	48.09	74	-25.91	peak
4880.000	37.52	0.14	37.66	54	-16.34	Avg
7320.000	42.16	2.36	44.52	74	-29.48	peak
7320.000	31.35	2.36	33.71	54	-20.29	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 50.4V by Battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4960.000	48.62	0.22	48.84	74	-25.16	peak
4960.000	37.53	0.22	37.75	54	-16.25	Avg
7440.000	42.34	2.64	44.98	74	-29.02	peak
7440.000	31.26	2.64	33.9	54	-20.1	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 50.4V by Battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4960.000	47.86	0.22	48.08	74	-25.92	peak
4960.000	37.54	0.22	37.76	54	-16.24	Avg
7440.000	42.16	2.64	44.8	74	-29.2	peak
7440.000	31.25	2.64	33.89	54	-20.11	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass
Note:

1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.

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#2
Radiated Emissions Test Results for Above 1GHz

EUT Name	Cleaning Robot		Model Name	SVBR01CL	
Temperature	23.5°C		Relative Humidity	51.3%	
Pressure	960hPa		Test Voltage	DC 50.4V by Battery	
Test Mode	Mode 1		Antenna Polarity	Horizontal	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4804.000	47.36	0.08	47.44	74	-26.56	peak
4804.000	38.54	0.08	38.62	54	-15.38	AVG
7206.000	42.16	2.21	44.37	74	-29.63	peak
7206.000	31.69	2.21	33.9	54	-20.1	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Cleaning Robot		Model Name	SVBR01CL	
Temperature	23.5°C		Relative Humidity	51.3%	
Pressure	960hPa		Test Voltage	DC 50.4V by Battery	
Test Mode	Mode 1		Antenna Polarity	Vertical	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4804.000	48.62	0.08	48.7	74	-25.3	peak
4804.000	38.52	0.08	38.6	54	-15.4	AVG
7206.000	42.16	2.21	44.37	74	-29.63	peak
7206.000	31.35	2.21	33.56	54	-20.44	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Cleaning Robot		Model Name	SVBR01CL	
Temperature	23.5°C		Relative Humidity	51.3%	
Pressure	960hPa		Test Voltage	DC 50.4V by Battery	
Test Mode	Mode 2		Antenna Polarity	Horizontal	

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4880.000	47.69	0.14	47.83	74	-26.17	peak
4880.000	37.54	0.14	37.68	54	-16.32	Avg
7320.000	42.16	2.36	44.52	74	-29.48	peak
7320.000	31.26	2.36	33.62	54	-20.38	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Cleaning Robot		Model Name	SVBR01CL		
Temperature	23.5°C		Relative Humidity	51.3%		
Pressure	960hPa		Test Voltage	DC 50.4V by Battery		
Test Mode	Mode 2		Antenna Polarity	Vertical		

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4880.000	47.95	0.14	48.09	74	-25.91	peak
4880.000	37.52	0.14	37.66	54	-16.34	Avg
7320.000	42.16	2.36	44.52	74	-29.48	peak
7320.000	31.35	2.36	33.71	54	-20.29	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 50.4V by Battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4960.000	48.62	0.22	48.84	74	-25.16	peak
4960.000	37.53	0.22	37.75	54	-16.25	Avg
7440.000	42.34	2.64	44.98	74	-29.02	peak
7440.000	31.26	2.64	33.9	54	-20.1	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 50.4V by Battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4960.000	47.86	0.22	48.08	74	-25.92	peak
4960.000	37.54	0.22	37.76	54	-16.24	Avg
7440.000	42.16	2.64	44.8	74	-29.2	peak
7440.000	31.25	2.64	33.89	54	-20.11	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass
Note:

1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.

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7. AC Power Line Conducted Emission Test

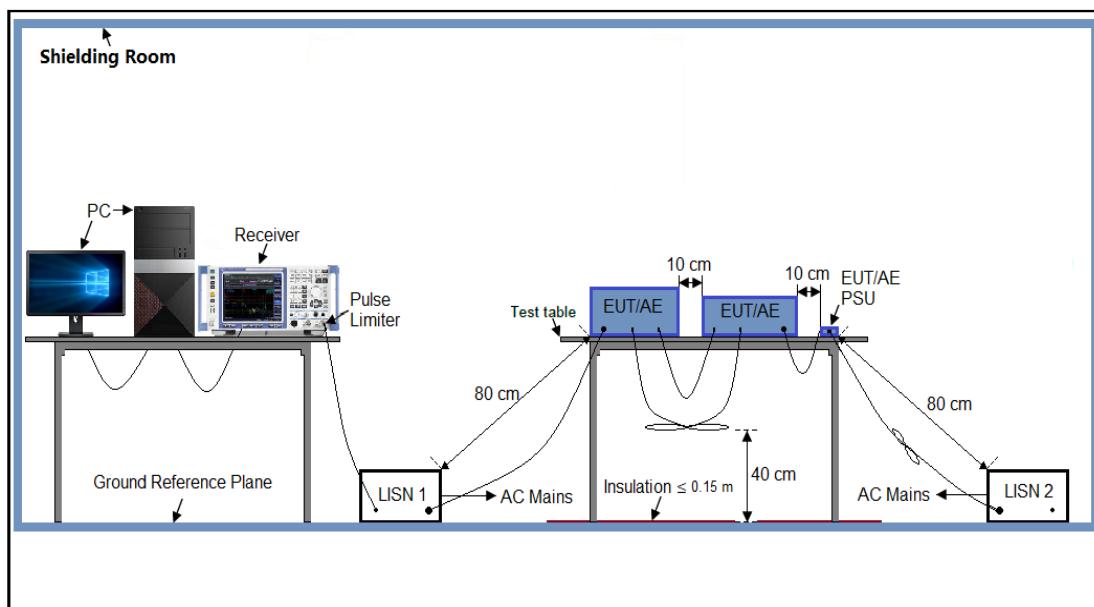
7.1 Measurement Limit

Frequency	Maximum RF Line Voltage	
	Q.P. (dB μ V)	Average (dB μ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

7.2 Measurement Setup (Block Diagram of Configuration)



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7.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 58.8V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side).
7. Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
8. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
9. During the above scans, the emissions were maximized by cable manipulation.
10. The test mode(s) were scanned during the preliminary test.
11. Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

7.4 Final Procedure of Line Conducted Emission Test

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
3. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
4. The test data of the worst case condition(s) was reported on the Summary Data page.
5. A conducted emission is calculated by the following equation:
 - Measurement Level (dB μ V) = Receiver reading (dB μ V) + Transd (dB)
 - Transd (dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin= Limit-Level

7.5 Measurement Result

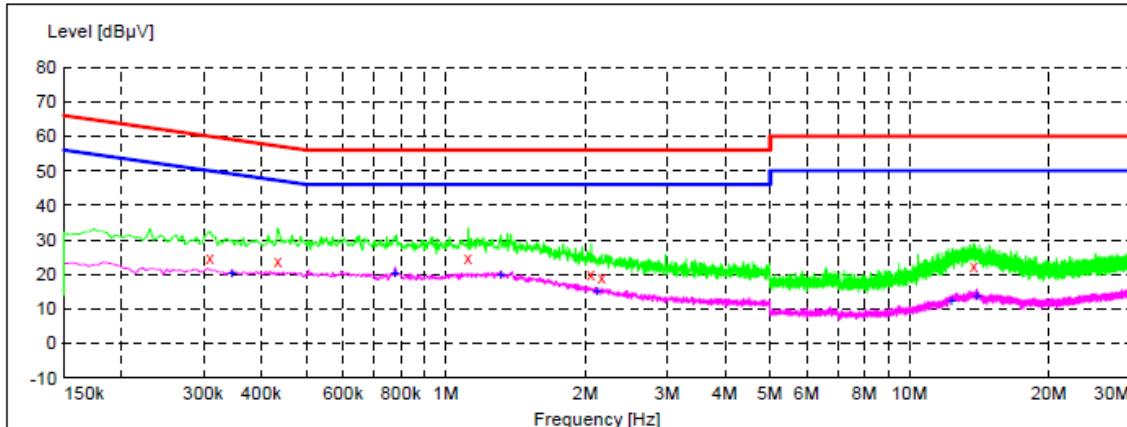
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#1

AC Power Line Conducted Emission Test																																																								
Test Mode	Mode 1		LISN Line		Neutral Side																																																			
																																																								
MEASUREMENT RESULT: "agc_fin"																																																								
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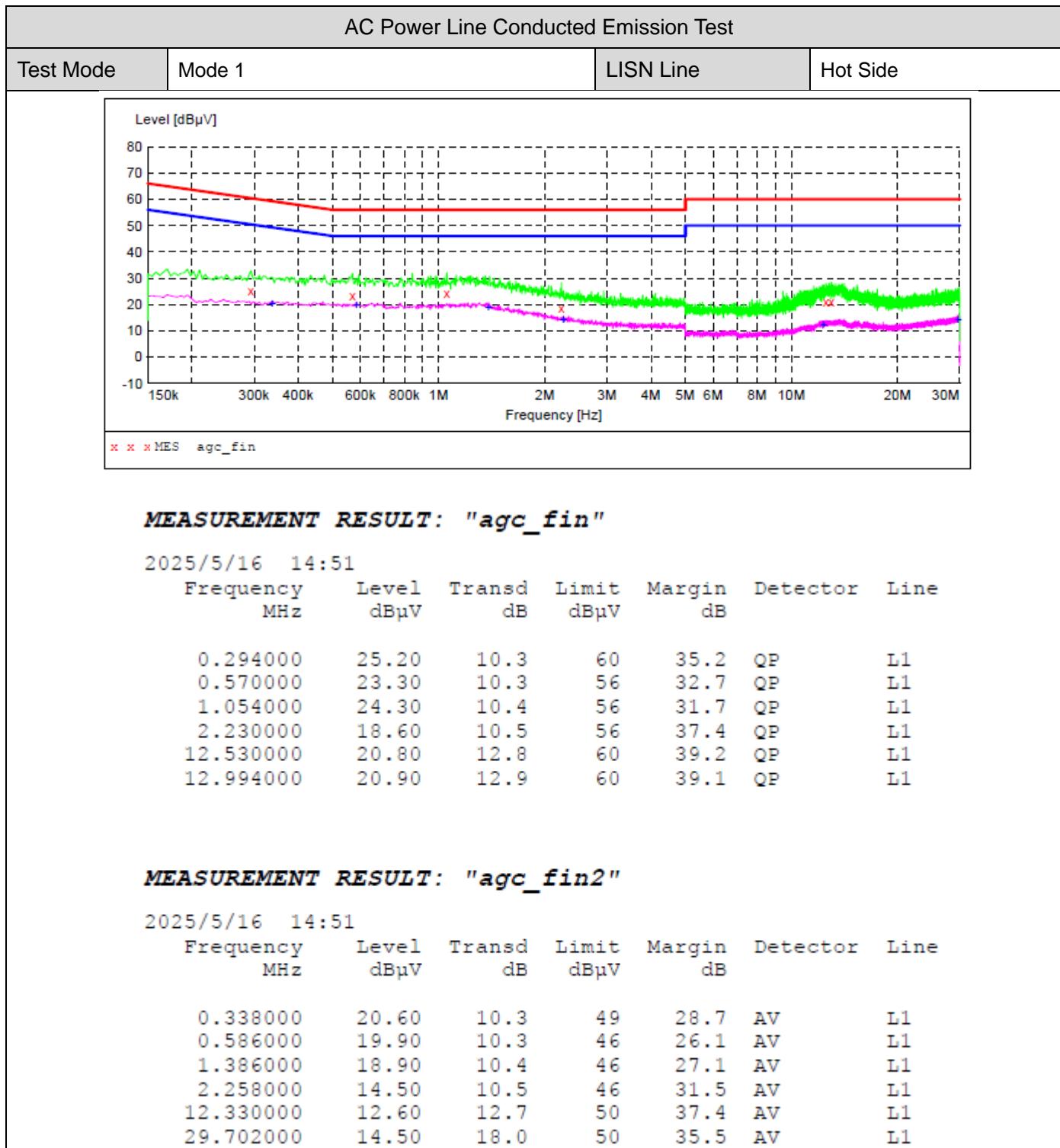
RESULT: PASS

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**RESULT: PASS**

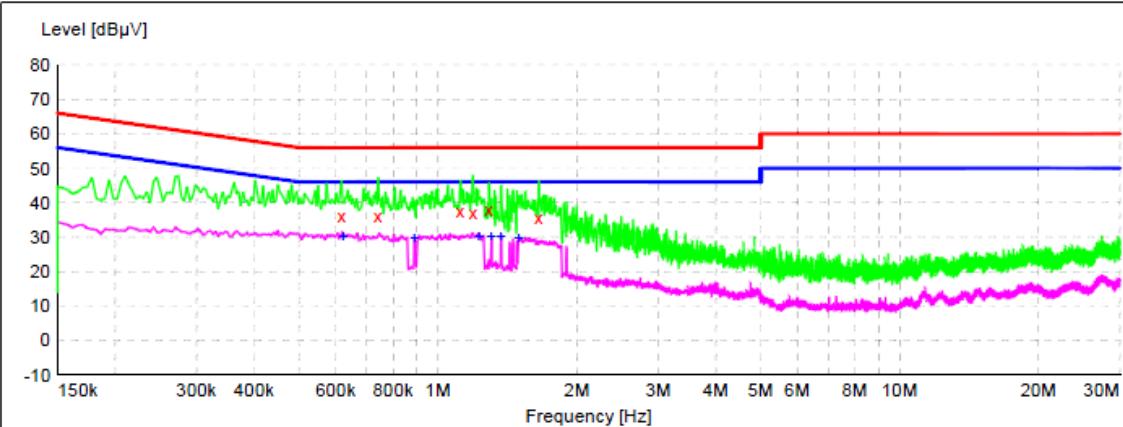
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#2

AC Power Line Conducted Emission Test																																																																																																					
Test Mode	Mode 1	LISN Line	Neutral Side																																																																																																		
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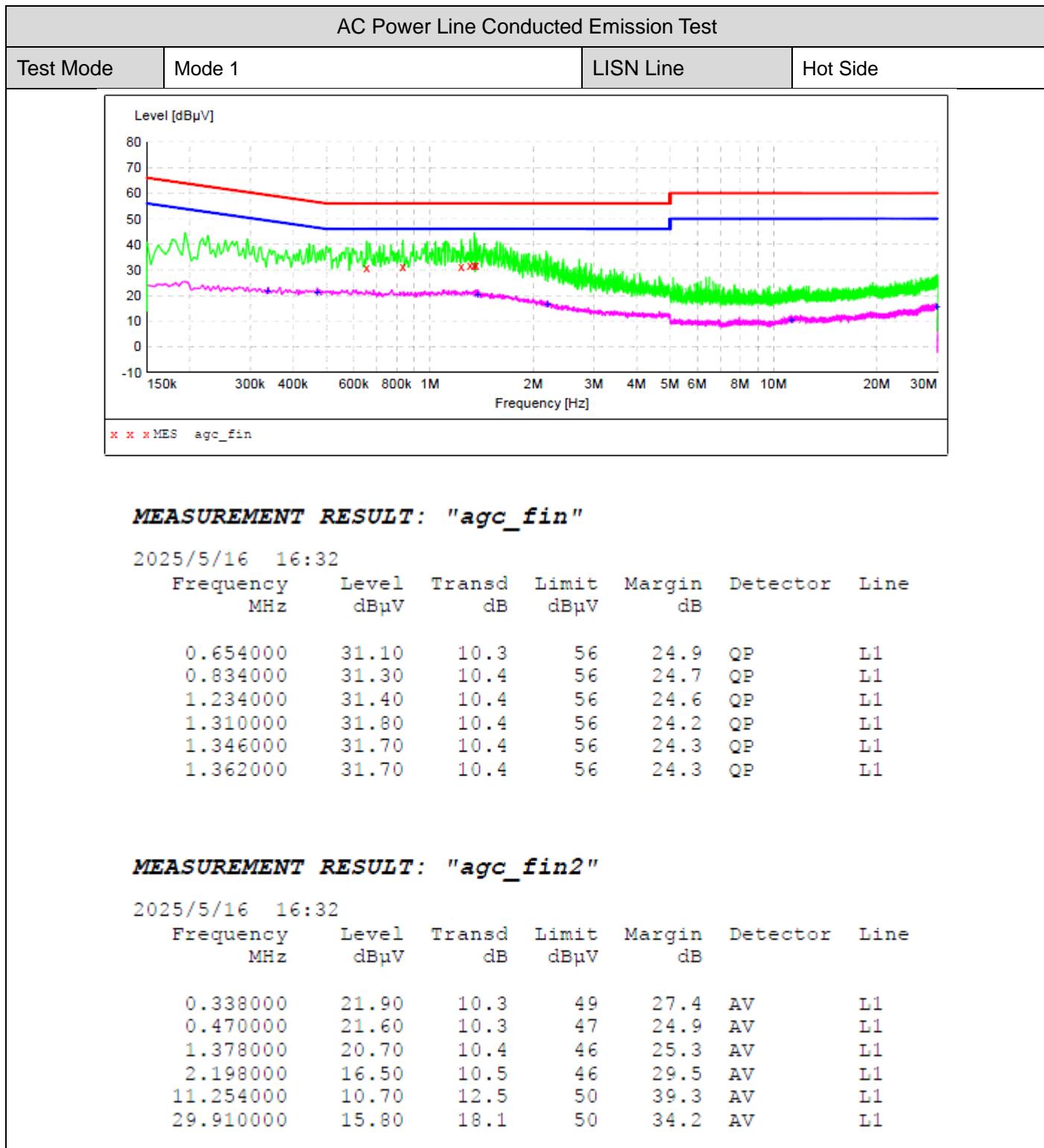
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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC12845221006AP02A

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC12845221006AP03A

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract or warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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