
FCC Test Report

Report No.: AGC12845221006FE07A

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 E §15.407

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 AGC12845221006FE07 (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.

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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.

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,§15.407(b) (1/4)	Radiated Spurious Emission
§15.207	AC Power Line Conducted Emission

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Table of Contents

1. General Information	6
2. Product Information	7
2.1 Product Technical Description	7
2.2 Table of Carrier Frequency	8
2.3 IEEE 802.11n Modulation Scheme	9
2.4 Related Submittal(S) / Grant (S)	10
2.5 Test Methodology	10
2.6 Special Accessories	10
2.7 Equipment Modifications	10
2.8 Antenna Requirement	10
2.9 Description of Test Software	11
3. Test Environment	12
3.1 Address of The Test Laboratory	12
3.2 Test Facility	12
3.3 Environmental Conditions	13
3.4 Measurement Uncertainty	13
3.5 List of Equipment Used	14
4. System Test Configuration	15
4.1 EUT Configuration	15
4.2 EUT Exercise	15
4.3 Configuration of Tested System	15
4.4 Equipment Used in Tested System	15
4.5 Summary of Test Results	16
5. Description of Test Modes	17
6. Radiated Spurious Emission	19
6.1 Measurement Limit	19
6.2 Measurement Procedure	20
6.3 Measurement Setup (Block Diagram of Configuration)	22
6.4 Measurement Result	23
7. AC Power Line Conducted Emission Test	39
7.1 Measurement limit	39
7.2 Block Diagram of Line Conducted Emission Test	39
7.3 Preliminary Procedure of Line Conducted Emission Test	40
7.4 Final Procedure of Line Conducted Emission Test	40
7.5 Test Result of Line Conducted Emission Test	41

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Appendix I: Photographs of Test Setup.....	45
Appendix II: Photographs of EUT.....	45

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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-5G WLAN-V1

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

Prepared By

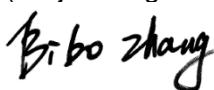


CiCi Li

(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

Equipment Type	<input type="checkbox"/> Outdoor access points <input type="checkbox"/> Fixed P2P access points	<input type="checkbox"/> Indoor access points <input checked="" type="checkbox"/> Client devices
Operation Frequency	<input checked="" type="checkbox"/> U-NII 1:5150MHz~5250MHz <input type="checkbox"/> U-NII 2C:5470MHz~5725MHz	<input type="checkbox"/> U-NII 2A: 5250MHz~5350MHz <input checked="" type="checkbox"/> U-NII 3: 5725MHz~5850MHz
DFS Design Type	<input type="checkbox"/> Master	<input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection
TPC Function	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Hardware Version	V1.0	
Software Version	V1.0	
Test Frequency Range	For 802.11a/n-HT20-VHT20: 5180~5240MHz, 5745~5825MHz For 802.11n-HT40-HE 40: 5190~5230MHz, 5755~5795MHz For 802.11ac-VHT80-HE80: 5210MHz, 5775MHz	
RF Output Power	IEEE 802.11a(HT20):12.53dBm; IEEE 802.11n(HT20):12.12dBm; IEEE802.11n(HT40):11.51dBm; IEEE 802.11ac(VHT20):11.15dBm; IEEE802.11ac(VHT40):9.95dBm; IEEE802.11ac(VHT80):9.57dBm	
Modulation	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps; 802.11n: up to 300Mbps; 802.11ac: up to 866.6Mbps;	
Number of channels	7 channels of U-NII-1 Band 8 channels of U-NII-3 Band	
Antenna Designation	FPC Antenna	
Antenna Gain	3.41dBi	
Power Supply	DC 50.4V by battery or DC 58.8V by adapter	

Note:

The product model SVBR01CL has two factory prototypes, namely S100 Pro R (#1) and S100 Pro M (#2).

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2.2 Table of Carrier Frequency

For 5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	--	--

For 5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz	--	--

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
155	5775 MHz	--	--

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2.3 IEEE 802.11n Modulation Scheme

MCS Index	Nss	Modulation	R	N _{BPSC}	N _{CBPS}		N _{DBPS}		Data rate (Mbps)	
									800nsGI	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

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2.4 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: 2A9RD-SVBR01CL filing to comply with the FCC Part 15 requirements.

2.5 Test Methodology

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
5	KDB 789033	789033 D02 General U-NII Test Procedures New Rules v02r01

2.6 Special Accessories

Refer to section 4.4.

2.7 Equipment Modifications

Not available for this EUT intended for grant.

2.8 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.
EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 3.41dBi.

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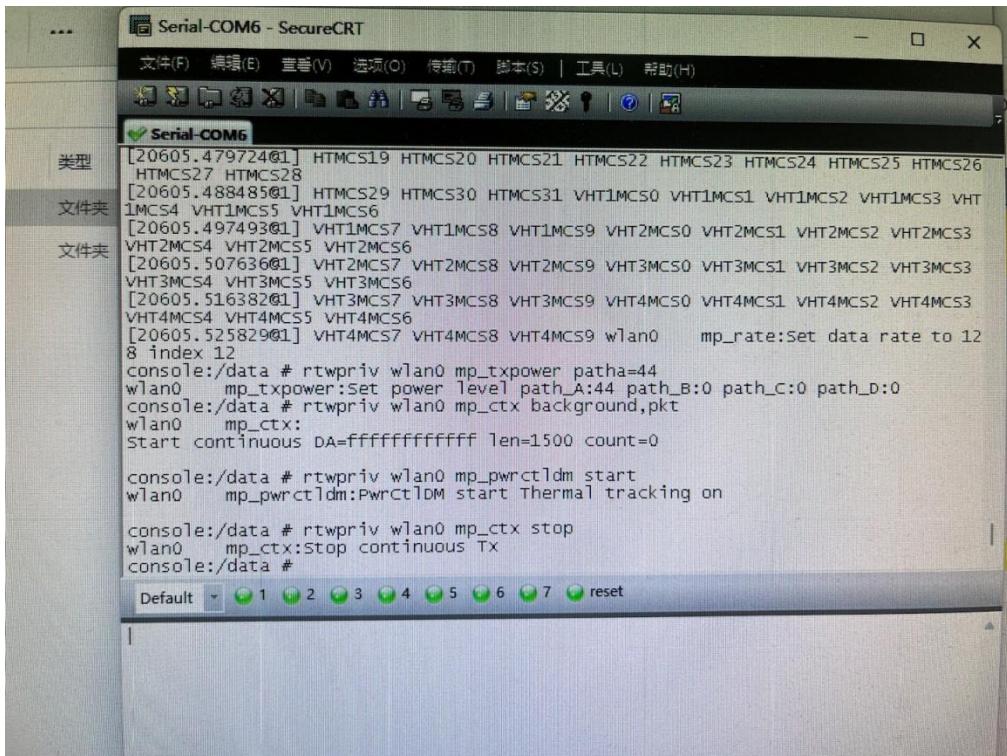
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2.9 Description of Test Software

For IEEE 802.11 mode:

The test utility software used during testing was “SecureCRT”.

Software Setting Diagram



```

Serial-COM6 - SecureCRT
文件(F) 编辑(E) 查看(V) 选项(O) 传输(T) 脚本(S) 工具(L) 帮助(H)
Serial-COM6
类型 [20605.479724@1] HTMCS19 HTMCS20 HTMCS21 HTMCS22 HTMCS23 HTMCS24 HTMCS25 HTMCS26
HTMCS27 HTMCS28
[20605.488448@1] HTMCS29 HTMCS30 HTMCS31 VHT1MCS0 VHT1MCS1 VHT1MCS2 VHT1MCS3 VHT1MCS4 VHT1MCS5 VHT1MCS6
[20605.497493@1] VHT1MCS7 VHT1MCS8 VHT1MCS9 VHT2MCS0 VHT2MCS1 VHT2MCS2 VHT2MCS3 VHT2MCS4 VHT2MCS5 VHT2MCS6
[20605.507636@1] VHT2MCS7 VHT2MCS8 VHT2MCS9 VHT3MCS0 VHT3MCS1 VHT3MCS2 VHT3MCS3 VHT3MCS4 VHT3MCS5 VHT3MCS6
[20605.516382@1] VHT3MCS7 VHT3MCS8 VHT3MCS9 VHT4MCS0 VHT4MCS1 VHT4MCS2 VHT4MCS3 VHT4MCS4 VHT4MCS5 VHT4MCS6
[20605.525829@1] VHT4MCS7 VHT4MCS8 VHT4MCS9 wlan0 mp_rate: Set data rate to 128 index 12
console:/data # rtwpriv wlan0 mp_txpower patha=44
wlan0 mp_txpower: Set power level path_A:44 path_B:0 path_C:0 path_D:0
console:/data # rtwpriv wlan0 mp_ctx background,pkt
wlan0 mp_ctx:
Start continuous DA=ffffffffffff len=1500 count=0
console:/data # rtwpriv wlan0 mp_pwrctl dm start
wlan0 mp_pwrctl dm:PwrCtlDM start Thermal tracking on
console:/data # rtwpriv wlan0 mp_ctx stop
wlan0 mp_ctx:stop continuous Tx
console:/data #
  
```

Mode (5150-5250MHz)	Channel	power Index
a20	L/M/H	15
n20	L/M/H	15
ac20	L/M/H	15
n40	L/M/H	15
ac40	L/M/H	15
ac80	L/M/H	15
(5725-5850MHz)	Channel	power Index
a20	L/M/H	15
n20	L/M/H	15
ac20	L/M/H	15
n40	L/M/H	15
ac40	L/M/H	15
ac80	L/M/H	11

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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	$U_c = \pm 2.7 \%$

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3.5 List of Equipment Used

● 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-A118	5G 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

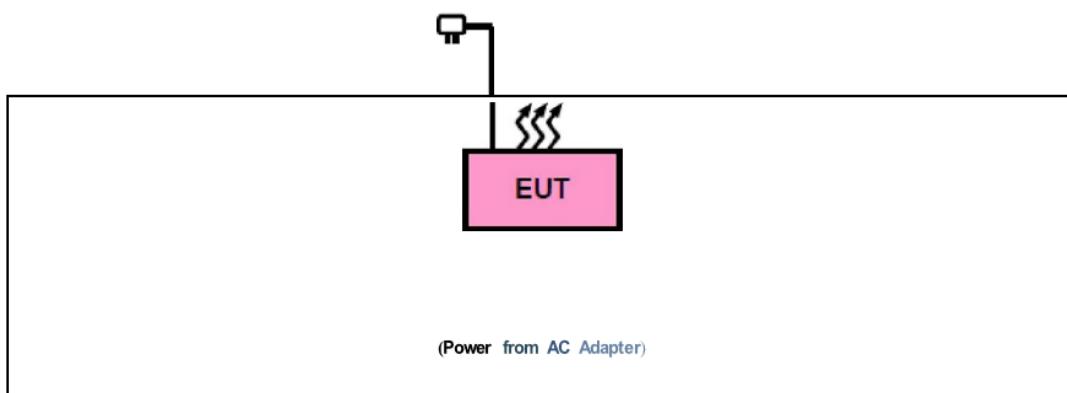
4.1 EUT Configuration

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



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

Test Accessories Come From The Manufacturer

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

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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.209,§15.407(b) (1/4)	Radiated Spurious Emission	Pass
2	§15.207	AC Power Line Conducted Emission	Pass

Note:

1. Refer to the manufacturer's declaration in the user manual.
2. The device operates without the transmission of information.

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5. Description of Test Modes

EUT Configure Mode	Applicable To				Description
	RE > 1G	RE < 1G	PLC	APCM	
A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	--	Powered by Adapter with WIFI(5G) Link
B	--	--	--	<input checked="" type="checkbox"/>	Powered by Battery with WIFI(5G) Link
C	--	--	--	--	Powered by USB with WIFI(5G) Link

Where, **RE > 1G: Radiated Emission above 1GHz** **PLC: Power Line Conducted Emission**

RE < 1G: Radiated Emission below 1GHz **APCM: Antenna Port Conducted Measurement**

NOTE 1: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane.

NOTE 2: "--"means no effect.

- **Radiated Emission Test (Above 1GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (IF EUT with antenna diversity architecture).
- Support 802.11ax, device debugging is tested in Full RU state
- The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0

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● Radiated Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).
- The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
A	802.11a	5180-5240	36 to 48	36	OFDM	6.0

● Power Line Conducted Emission Test:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).
- The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
A	802.11a	5180-5240	36 to 48	36	OFDM	6.0

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6. Radiated Spurious Emission

6.1 Measurement Limit

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (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:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Restricted bands	Applicable to	Limit	
		Field strength at 3m (dBuV/m)	
		PK: 74	AV: 54
Out of the restricted bands	Applicable to	EIRP Limit (dBm/MHz)	Equivalent field Strength at 3m (dBuV/m)
	FCC 15.407(b)(1)	PK: -27	PK: 68.2
	15.407(b)(2)		
	15.407(b)(3)		
	15.407(b)(4)	See Note 2	

Note 1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000 \sqrt{30 P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

Note 2: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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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. 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.
8. 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.
9. 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.
10. 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.

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

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

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.Section G)
Unwanted emissions measurement.

◆ **Procedure for Unwanted Emissions Measurements Below 1000MHz:**

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

◆ **Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz:**

- RBW = 1 MHz
- VBW \geq 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

◆ **Procedures for Average Unwanted Emissions Measurements Above 1000MHz:**

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

◆ **Procedures for Average Unwanted Emissions Measurements Above 1000MHz:**

- RBW = 1 MHz
- VBW = 3 MHz • Detector = power averaging (rms), set span/(# of points in sweep) \geq RBW/2.
- Averaging type = power averaging (RMS)
- The correction factor shall be offset is $10 \log (1/x)$, where x is the duty cycle.

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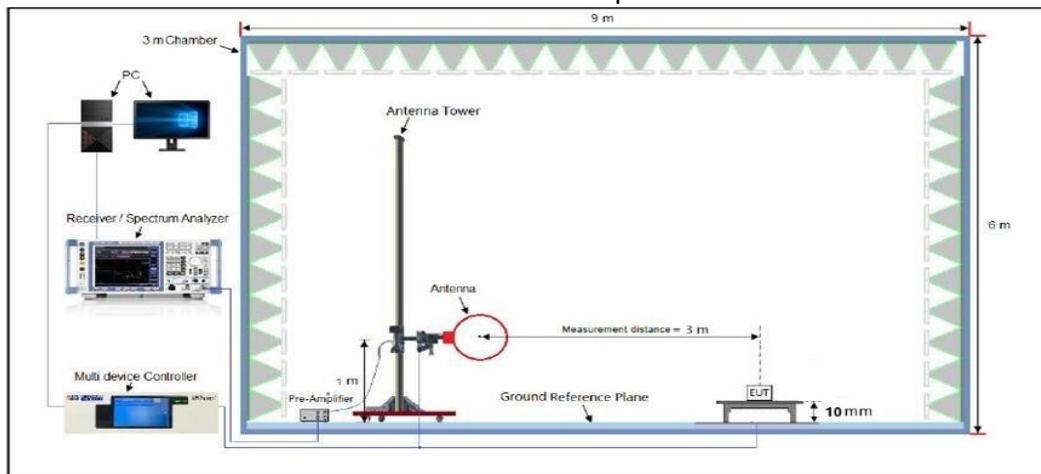
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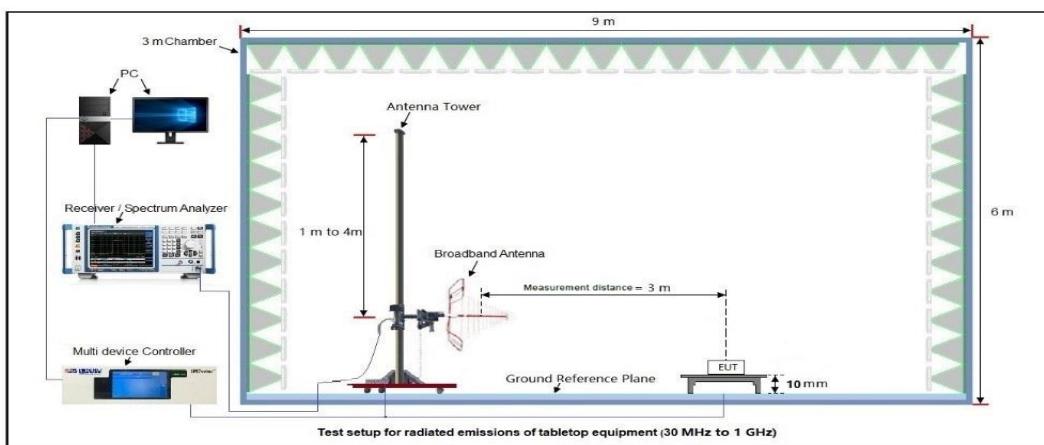
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6.3 Measurement Setup (Block Diagram of Configuration)

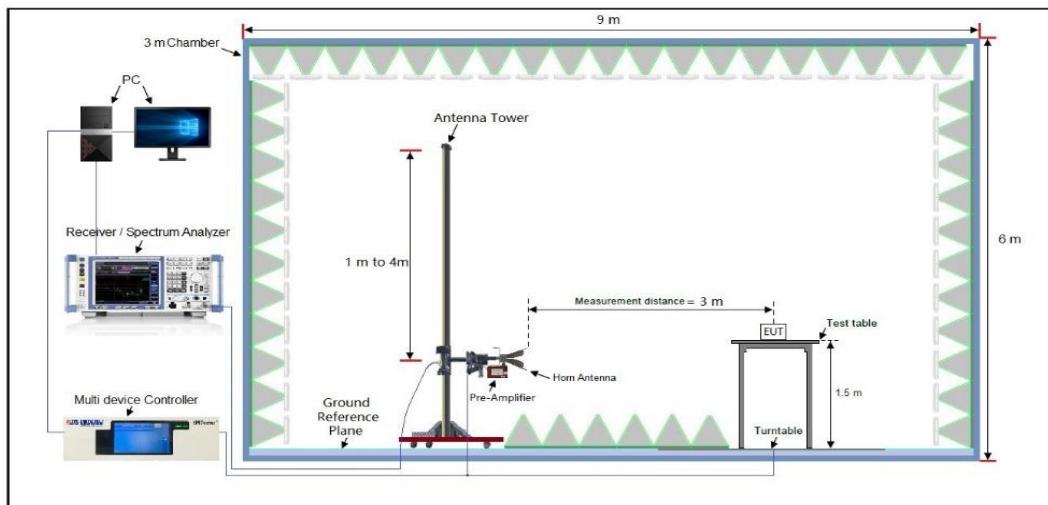
Radiated Emission Test Setup 9kHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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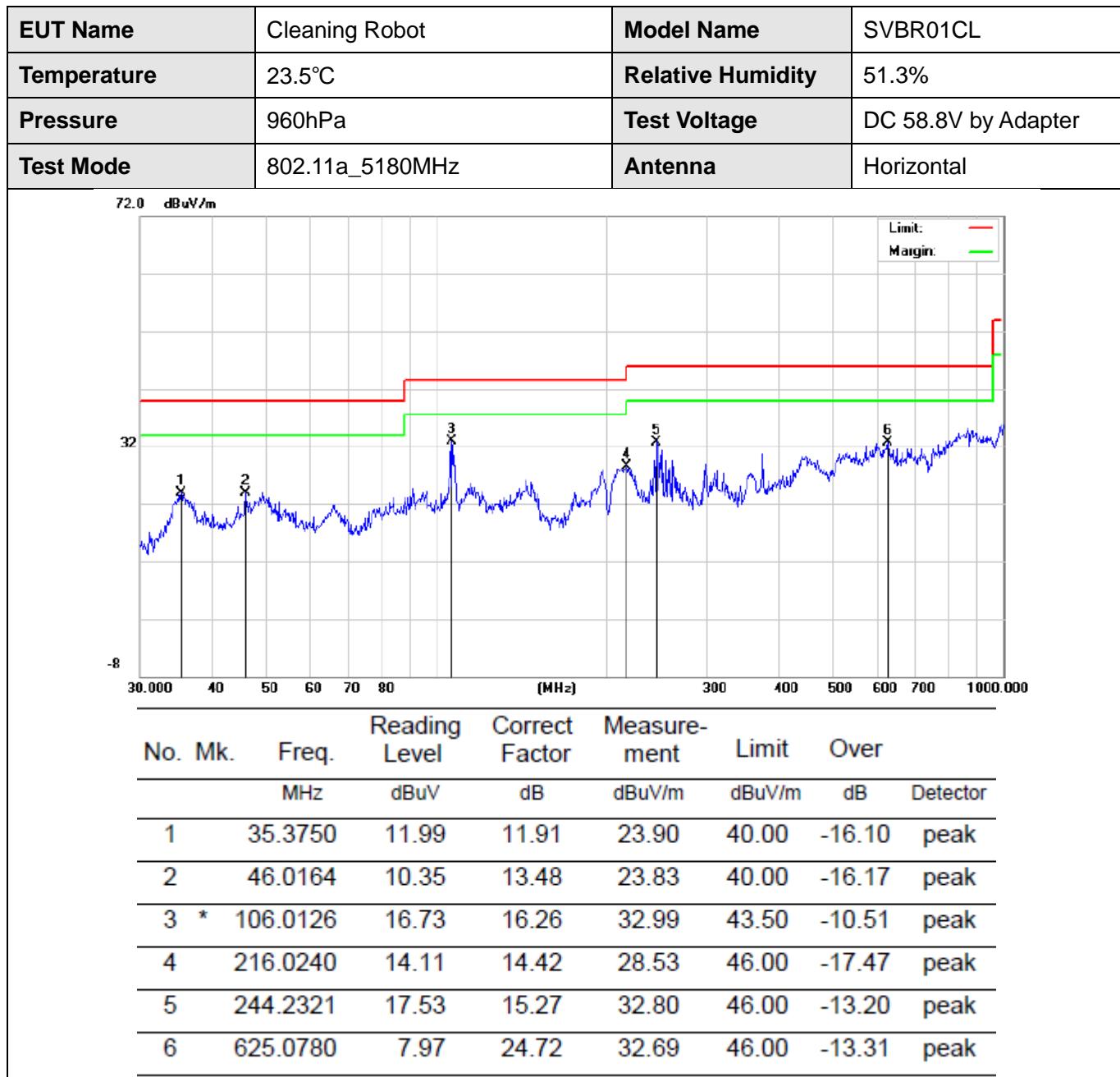
6.4 Measurement Result

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

Radiated Emission Test Results at 30MHz-1GHz



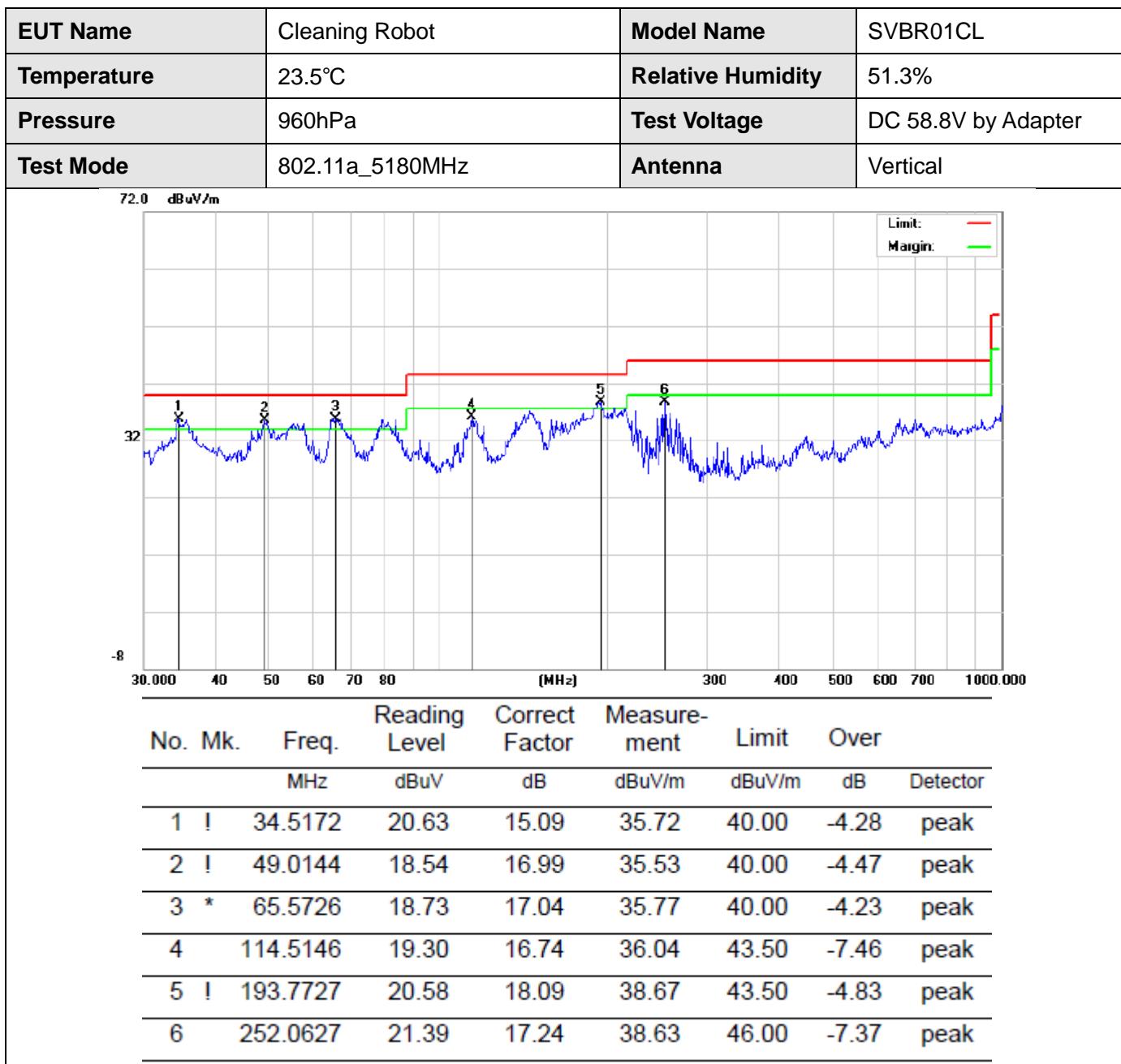
Result: Pass

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Result: Pass

Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. All test modes had been pre-tested, Refer to Chapter 5 of the report for details.

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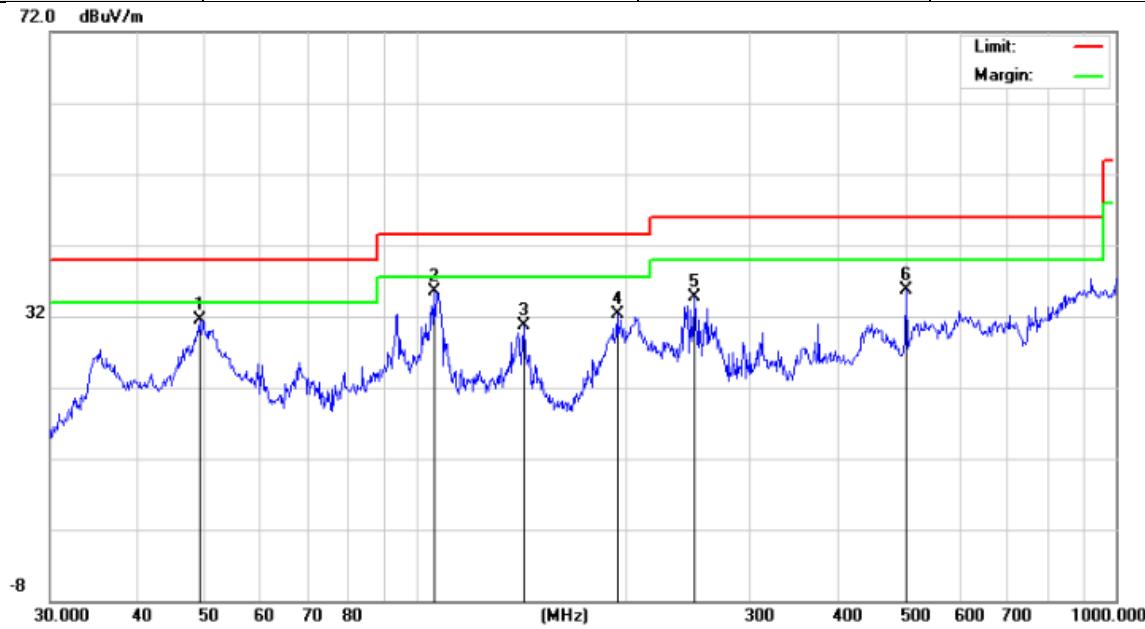
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#2
Radiated Emission Test Results at 30MHz-1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11a_5180MHz	Antenna	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		49.0145	18.15	13.27	31.42	40.00	-8.58	peak
2	*	106.0126	19.25	16.26	35.51	43.50	-7.99	peak
3		142.8243	15.88	14.79	30.67	43.50	-12.83	peak
4		193.7728	18.60	13.78	32.38	43.50	-11.12	peak
5		250.3012	19.54	15.09	34.63	46.00	-11.37	peak
6		501.1790	13.38	22.28	35.66	46.00	-10.34	peak

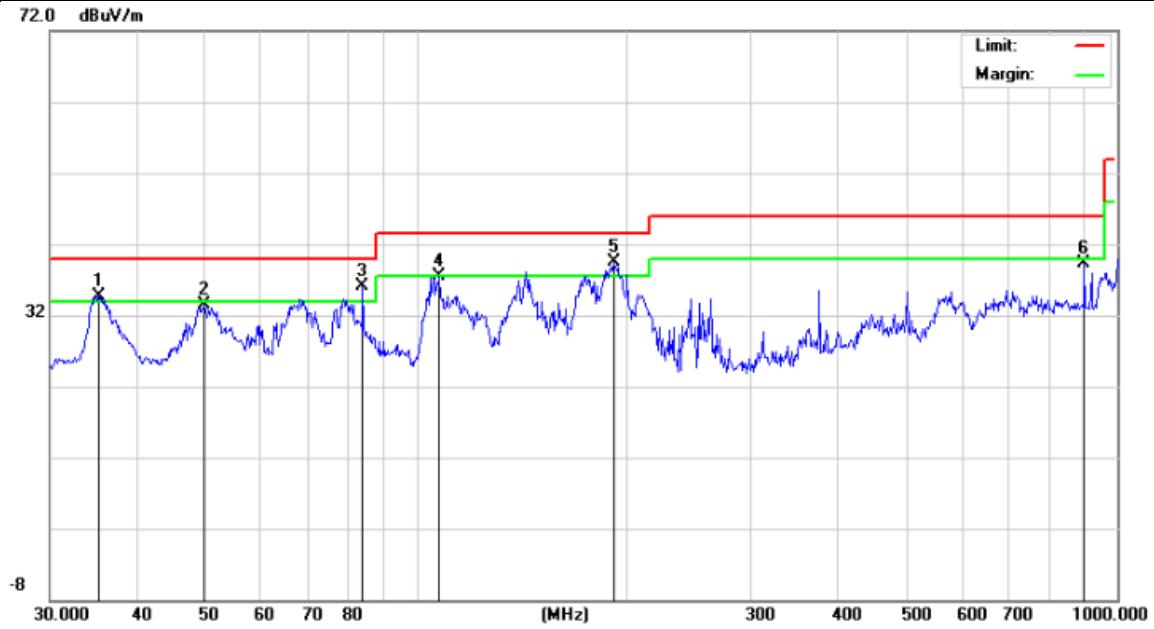
Result: Pass

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EUT Name	Cleaning Robot		Model Name	SVBR01CL																																																																										
Temperature	23.5°C		Relative Humidity	51.3%																																																																										
Pressure	960hPa		Test Voltage	DC 58.8V by Adapter																																																																										
Test Mode	802.11a_5180MHz		Antenna	Vertical																																																																										
 <p>The graph shows the measured spectral emissions (blue line) against the measurement limit (red line) and margin (green line). The x-axis represents frequency from 30.000 to 1000.000 MHz, and the y-axis represents power density in dBuV/m from -8 to 72.0. Six specific frequency points are marked: 1 (35.2511 MHz), 2 (49.8813 MHz), 3 (83.8156 MHz), 4 (107.8876 MHz), 5 (191.0738 MHz), and 6 (896.9963 MHz). Points 1, 2, 3, 4, and 5 are marked with 'X' and exceed the measurement limit, while point 6 is within the limit.</p>																																																																														
<table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq.</th> <th>Reading Level</th> <th>Correct Factor</th> <th>Measurement</th> <th>Limit</th> <th>Over</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>MHz</td> <td>dBuV</td> <td>dB</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>Detector</td> </tr> <tr> <td>1</td> <td>!</td> <td>35.2511</td> <td>19.42</td> <td>15.33</td> <td>34.75</td> <td>40.00</td> <td>-5.25</td> <td>peak</td> </tr> <tr> <td>2</td> <td></td> <td>49.8813</td> <td>16.57</td> <td>17.00</td> <td>33.57</td> <td>40.00</td> <td>-6.43</td> <td>peak</td> </tr> <tr> <td>3</td> <td>*</td> <td>83.8156</td> <td>19.80</td> <td>16.38</td> <td>36.18</td> <td>40.00</td> <td>-3.82</td> <td>peak</td> </tr> <tr> <td>4</td> <td></td> <td>107.8876</td> <td>21.91</td> <td>15.58</td> <td>37.49</td> <td>43.50</td> <td>-6.01</td> <td>peak</td> </tr> <tr> <td>5</td> <td>!</td> <td>191.0738</td> <td>21.27</td> <td>18.17</td> <td>39.44</td> <td>43.50</td> <td>-4.06</td> <td>peak</td> </tr> <tr> <td>6</td> <td></td> <td>896.9963</td> <td>10.99</td> <td>28.23</td> <td>39.22</td> <td>46.00</td> <td>-6.78</td> <td>peak</td> </tr> </tbody> </table>								No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	1	!	35.2511	19.42	15.33	34.75	40.00	-5.25	peak	2		49.8813	16.57	17.00	33.57	40.00	-6.43	peak	3	*	83.8156	19.80	16.38	36.18	40.00	-3.82	peak	4		107.8876	21.91	15.58	37.49	43.50	-6.01	peak	5	!	191.0738	21.27	18.17	39.44	43.50	-4.06	peak	6		896.9963	10.99	28.23	39.22	46.00	-6.78	peak
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over																																																																							
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector																																																																						
1	!	35.2511	19.42	15.33	34.75	40.00	-5.25	peak																																																																						
2		49.8813	16.57	17.00	33.57	40.00	-6.43	peak																																																																						
3	*	83.8156	19.80	16.38	36.18	40.00	-3.82	peak																																																																						
4		107.8876	21.91	15.58	37.49	43.50	-6.01	peak																																																																						
5	!	191.0738	21.27	18.17	39.44	43.50	-4.06	peak																																																																						
6		896.9963	10.99	28.23	39.22	46.00	-6.78	peak																																																																						

Result: Pass

Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. All test modes had been pre-tested, Refer to Chapter 5 of the report for details.

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#1

Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11a20_5180MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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)	
10360.042	47.91	9.14	57.05	68.20	-11.15	peak
15540.063	42.56	10.22	52.78	74.00	-21.22	peak
15540.063	31.35	10.22	41.57	54.00	-12.43	AVG

Remark:

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

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Radiated Emission Above 1GHz–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)	
10360.042	47.54	9.14	56.68	68.20	-11.52	peak
15540.063	41.65	10.22	51.87	74.00	-22.13	peak
15540.063	32.58	10.22	42.80	54.00	-11.20	AVG

Remark:

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

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Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11a20_5200MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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
10400.042	47.84	9.14	56.98	68.20	-11.22	peak
15600.063	41.59	10.22	51.81	74.00	-22.19	peak
15600.063	31.35	10.22	41.57	54.00	-12.43	AVG

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

Radiated Emission Above 1GHz–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
10400.042	47.48	9.14	56.62	68.20	-11.58	peak
15600.063	41.52	10.22	51.74	74.00	-22.26	peak
15600.063	32.36	10.22	42.58	54.00	-11.42	AVG

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

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11a20_5240MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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
10480.042	47.48	9.27	56.75	68.20	-11.45	peak
15720.063	42.54	10.38	52.92	74.00	-21.08	peak
15720.063	31.25	10.38	41.63	54.00	-12.37	AVG

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

Radiated Emission Above 1GHz–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
10480.042	47.98	9.27	57.25	68.20	-10.95	peak
15720.063	42.31	10.38	52.69	74.00	-21.31	peak
15720.063	32.35	10.38	42.73	54.00	-11.27	AVG

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

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11n20_5745MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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
11490.042	47.84	9.42	57.26	74.00	-16.74	peak
11490.042	37.52	9.42	46.94	54.00	-7.06	AVG
17235.063	41.53	10.51	52.04	68.20	-16.16	peak

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

Radiated Emission Above 1GHz–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
11490.042	48.67	9.42	58.09	74.00	-15.91	peak
11490.042	38.42	9.42	47.84	54.00	-6.16	AVG
17235.063	42.49	10.51	53.00	68.20	-15.20	peak

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

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11n20_5785MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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
11570.042	48.67	9.42	58.09	74.00	-15.91	peak
11570.042	37.54	9.42	46.96	54.00	-7.04	AVG
17355.063	42.36	10.51	52.87	68.20	-15.33	peak

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

Radiated Emission Above 1GHz–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
11570.042	47.88	9.42	57.30	74.00	-16.70	peak
11570.042	38.49	9.42	47.91	54.00	-6.09	AVG
17355.063	41.52	10.51	52.03	68.20	-16.17	peak

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

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11n20_5825MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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
11650.042	48.19	9.62	57.81	74.00	-16.19	peak
11650.042	37.54	9.62	47.16	54.00	-6.84	AVG
17475.063	41.25	10.75	52.00	68.20	-16.20	peak

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

Radiated Emission Above 1GHz–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
11650.042	48.52	9.62	58.14	74.00	-15.86	peak
11650.042	37.54	9.62	47.16	54.00	-6.84	AVG
17475.063	41.26	10.75	52.01	68.20	-16.19	peak

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

Result: Pass

Note:

1. The amplitude of other spurious emissions from 1GHz to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Measure Result-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.
4. All test modes had been pre-tested. Refer to Chapter 5 of the report for details.

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#1

Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11a20_5180MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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)	
10360.042	47.59	9.14	56.73	68.20	-11.47	peak
15540.063	41.52	10.22	51.74	74.00	-22.26	peak
15540.063	31.26	10.22	41.48	54.00	-12.52	AVG

Remark:

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

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Radiated Emission Above 1GHz–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)	
10360.042	47.85	9.14	56.99	68.20	-11.21	peak
15540.063	42.61	10.22	52.83	74.00	-21.17	peak
15540.063	31.26	10.22	41.48	54.00	-12.52	AVG

Remark:

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

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Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11a20_5200MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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
10400.042	48.62	9.14	57.76	68.20	-10.44	peak
15600.063	42.31	10.22	52.53	74.00	-21.47	peak
15600.063	31.54	10.22	41.76	54.00	-12.24	AVG

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

Radiated Emission Above 1GHz–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
10400.042	48.62	9.14	57.76	68.20	-10.44	peak
15600.063	42.31	10.22	52.53	74.00	-21.47	peak
15600.063	32.36	10.22	42.58	54.00	-11.42	AVG

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

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11a20_5240MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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
10480.042	47.62	9.27	56.89	68.20	-11.31	peak
15720.063	42.65	10.38	53.03	74.00	-20.97	peak
15720.063	32.39	10.38	42.77	54.00	-11.23	AVG

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

Radiated Emission Above 1GHz–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
10480.042	49.65	9.27	58.92	68.20	-9.28	peak
15720.063	41.87	10.38	52.25	74.00	-21.75	peak
15720.063	32.35	10.38	42.73	54.00	-11.27	AVG

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

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11n20_5745MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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
						peak
11490.042	47.94	9.42	57.36	74.00	-16.64	peak
11490.042	37.59	9.42	47.01	54.00	-6.99	AVG
17235.063	42.16	10.51	52.67	68.20	-15.53	peak

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

Radiated Emission Above 1GHz–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
						peak
11490.042	47.59	9.42	57.01	74.00	-16.99	peak
11490.042	38.22	9.42	47.64	54.00	-6.36	AVG
17235.063	42.16	10.51	52.67	68.20	-15.53	peak

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

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11n20_5785MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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
11570.042	48.26	9.42	57.68	74.00	-16.32	peak
11570.042	37.54	9.42	46.96	54.00	-7.04	AVG
17355.063	41.26	10.51	51.77	68.20	-16.43	peak

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

Radiated Emission Above 1GHz–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
11570.042	47.26	9.42	56.68	74.00	-17.32	peak
11570.042	37.12	9.42	46.54	54.00	-7.46	AVG
17355.063	41.26	10.51	51.77	68.20	-16.43	peak

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

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Cleaning Robot	Model Name	SVBR01CL
Temperature	23.5°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 58.8V by Adapter
Test Mode	802.11n20_5825MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–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
11650.042	48.52	9.62	58.14	74.00	-15.86	peak
11650.042	37.49	9.62	47.11	54.00	-6.89	AVG
17475.063	41.25	10.75	52.00	68.20	-16.20	peak

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

Radiated Emission Above 1GHz–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
11650.042	47.55	9.62	57.17	74.00	-16.83	peak
11650.042	38.19	9.62	47.81	54.00	-6.19	AVG
17475.063	41.27	10.75	52.02	68.20	-16.18	peak

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

Result: Pass

Note:

1. The amplitude of other spurious emissions from 1GHz to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Measure Result-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.
4. All test modes had been pre-tested. Refer to Chapter 5 of the report for details.

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7. AC Power Line Conducted Emission Test

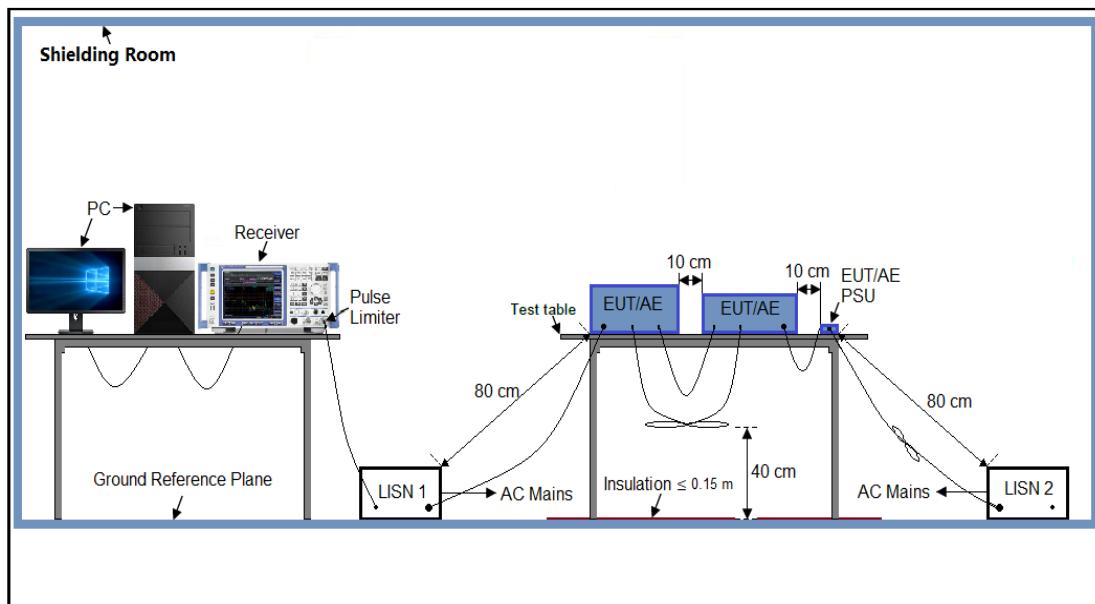
7.1 Measurement limit

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 0.50MHz.

7.2 Block Diagram of Line Conducted Emission Test



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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 5V 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 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). 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.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

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. 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.
3. The test data of the worst case was reported on the Summary Data page.

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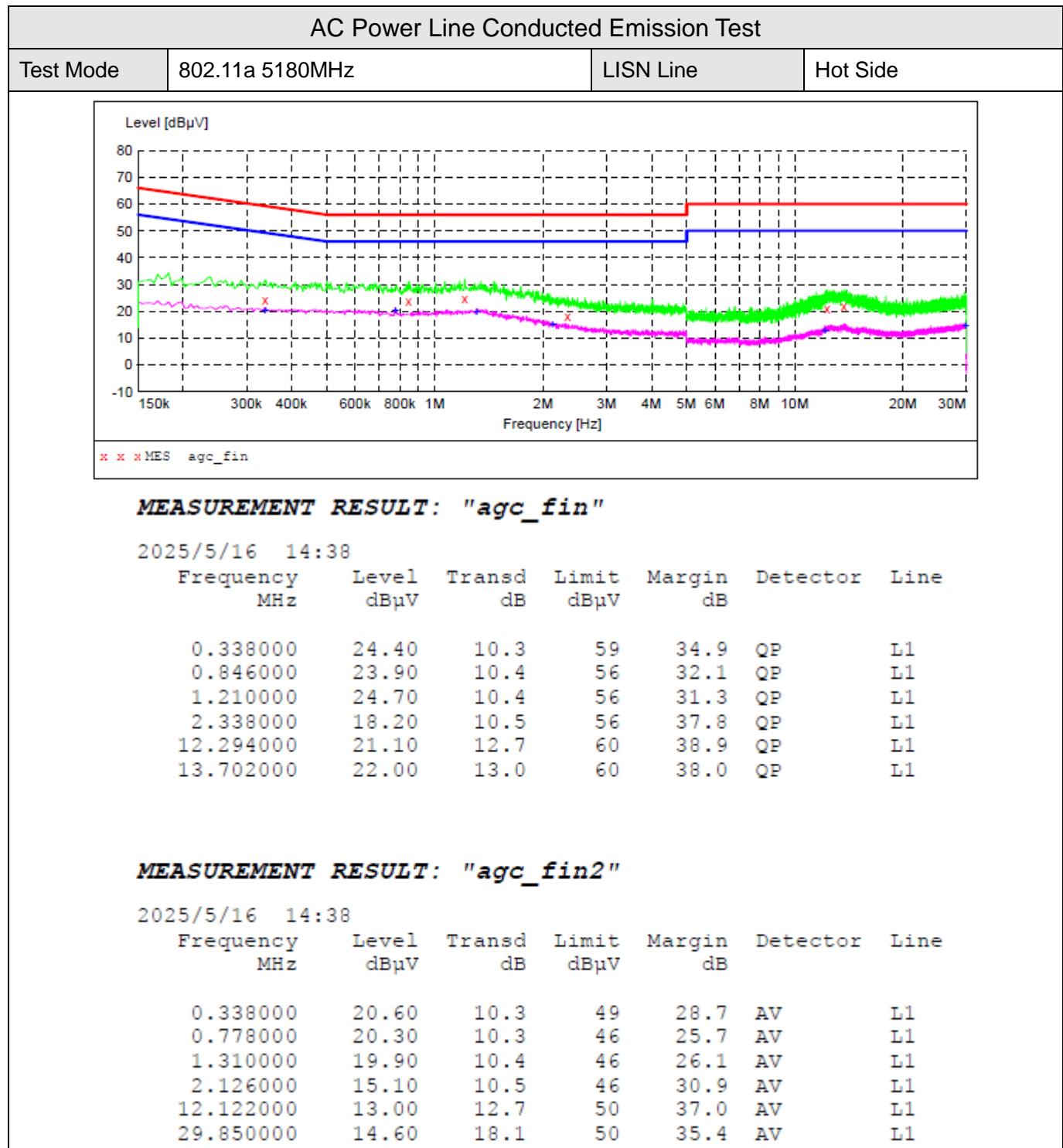
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7.5 Test Result of Line Conducted Emission Test

#1



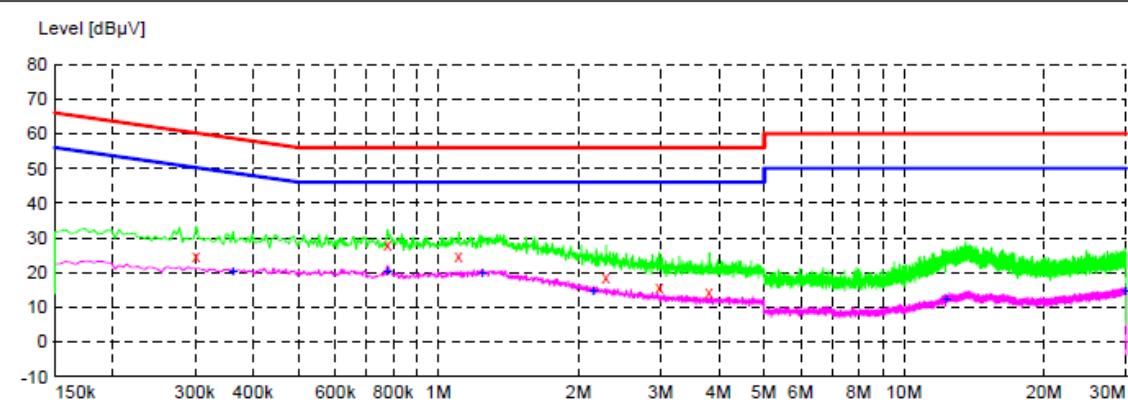
Result: Pass

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AC Power Line Conducted Emission Test																																																								
Test Mode	802.11a 5180MHz		LISN Line		Neutral Side																																																			
																																																								
MEASUREMENT RESULT: "agc_fin"																																																								
2025/5/16 14:44																																																								
<table> <thead> <tr> <th>Frequency MHz</th><th>Level dBμV</th><th>Transd dB</th><th>Limit dBμV</th><th>Margin dB</th><th>Detector</th><th>Line</th></tr> </thead> <tbody> <tr> <td>0.302000</td><td>24.80</td><td>10.3</td><td>60</td><td>35.4</td><td>QP</td><td>N</td></tr> <tr> <td>0.778000</td><td>28.00</td><td>10.3</td><td>56</td><td>28.0</td><td>QP</td><td>N</td></tr> <tr> <td>1.106000</td><td>24.50</td><td>10.4</td><td>56</td><td>31.5</td><td>QP</td><td>N</td></tr> <tr> <td>2.290000</td><td>18.50</td><td>10.5</td><td>56</td><td>37.5</td><td>QP</td><td>N</td></tr> <tr> <td>2.982000</td><td>16.00</td><td>10.5</td><td>56</td><td>40.0</td><td>QP</td><td>N</td></tr> <tr> <td>3.818000</td><td>14.40</td><td>10.6</td><td>56</td><td>41.6</td><td>QP</td><td>N</td></tr> </tbody> </table>							Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	0.302000	24.80	10.3	60	35.4	QP	N	0.778000	28.00	10.3	56	28.0	QP	N	1.106000	24.50	10.4	56	31.5	QP	N	2.290000	18.50	10.5	56	37.5	QP	N	2.982000	16.00	10.5	56	40.0	QP	N	3.818000	14.40	10.6	56	41.6	QP	N	
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line																																																		
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MEASUREMENT RESULT: "agc_fin2"																																																								
2025/5/16 14:44																																																								
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Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line																																																		
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12.302000	12.30	12.7	50	37.7	AV	N																																																		
29.906000	14.70	18.1	50	35.3	AV	N																																																		

Result: Pass

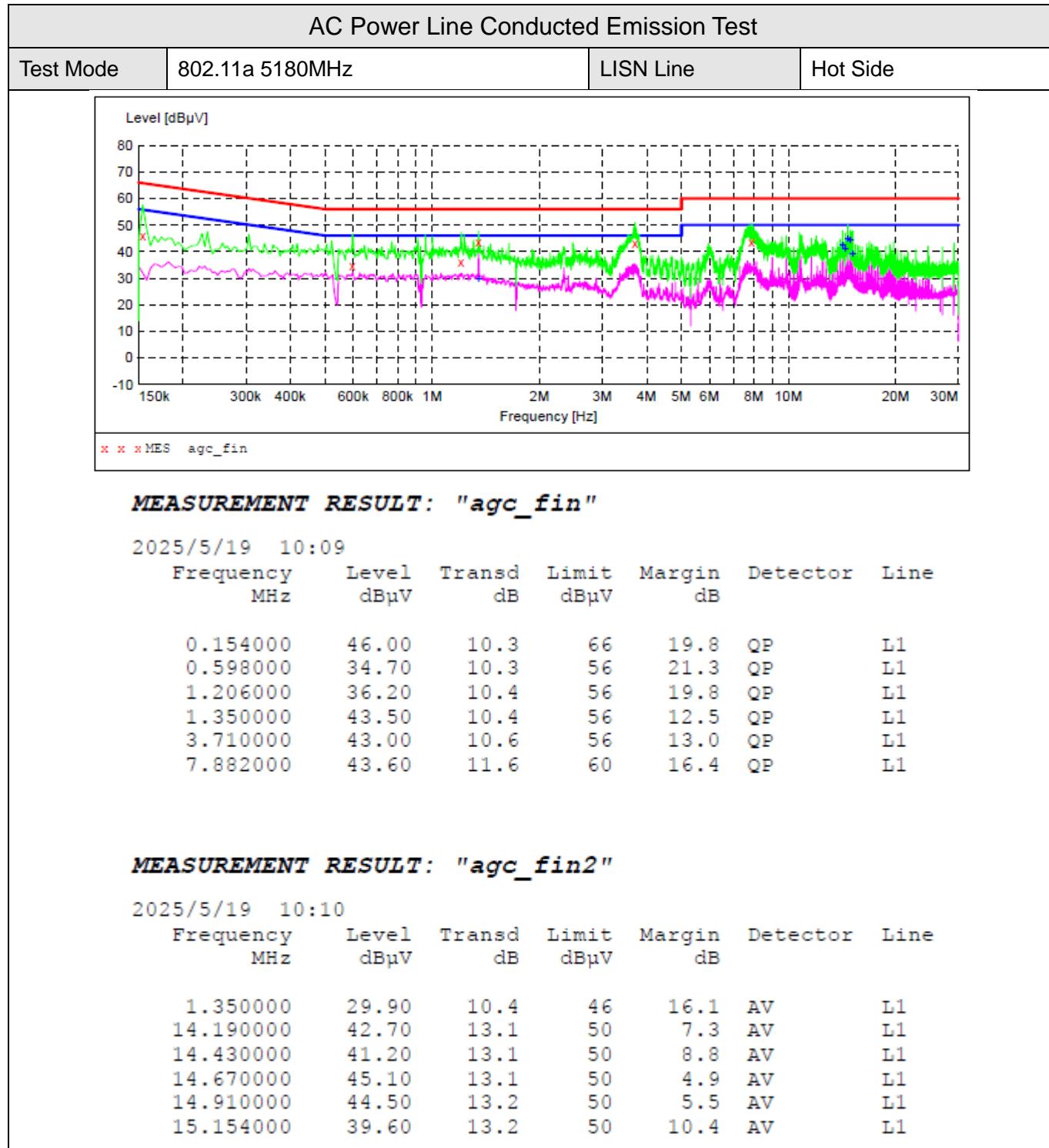
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#2

**Result: Pass**

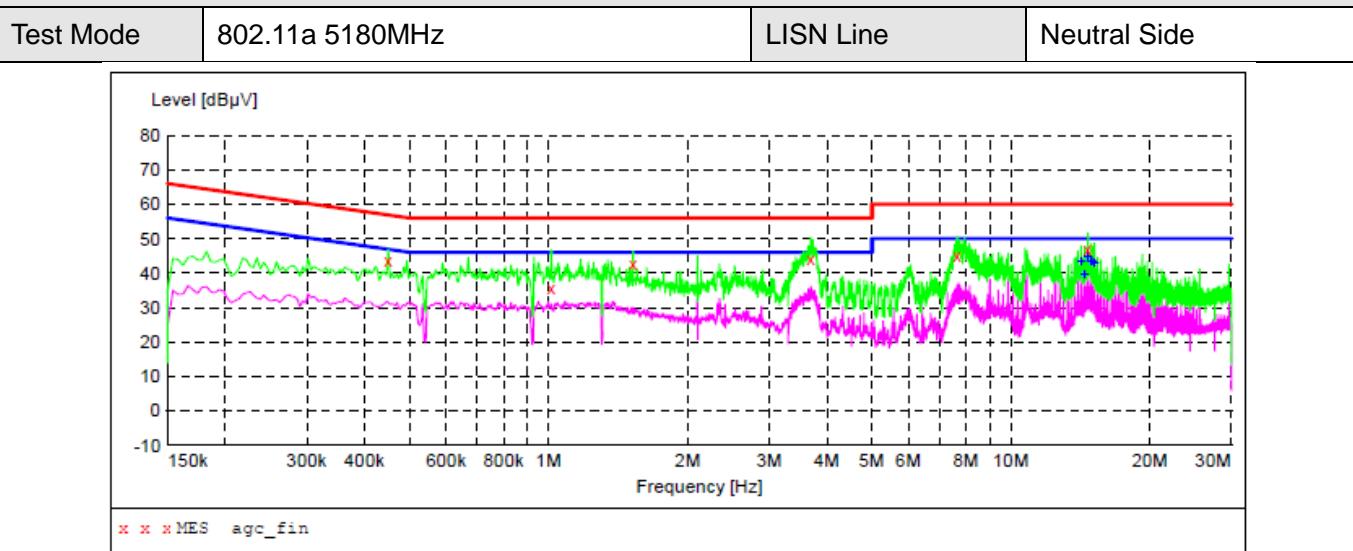
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AC Power Line Conducted Emission Test


MEASUREMENT RESULT: "agc_fin"

2025/5/19 10:05

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.450000	43.50	10.3	57	13.4	QP	N
1.014000	35.70	10.4	56	20.3	QP	N
1.522000	42.50	10.4	56	13.5	QP	N
3.690000	44.30	10.6	56	11.7	QP	N
7.650000	45.00	11.5	60	15.0	QP	N
14.674000	46.80	13.1	60	13.2	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/5/19 10:05

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
14.190000	43.50	13.1	50	6.5	AV	N
14.434000	40.00	13.1	50	10.0	AV	N
14.674000	44.90	13.1	50	5.1	AV	N
14.914000	43.50	13.2	50	6.5	AV	N
15.006000	43.40	13.2	50	6.6	AV	N
15.154000	43.10	13.2	50	6.9	AV	N

Result: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC12845221006AP02A

Appendix II: Photographs of 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----

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