

FCC Test Report

Report No.: AGC14499240405FR02B

FCC ID : 2BCUQ-W610D

APPLICATION PURPOSE : Class II Permissive Change

PRODUCT DESIGNATION : Portable DECT Phone

BRAND NAME : **LINKVIL**

MODEL NAME : W610D, W610DP, W710P, W610P

APPLICANT : Fanvil Link Technology Co.,LTD

DATE OF ISSUE : Jun. 23, 2025

STANDARD(S) : FCC Part 15 Subpart C §15.247

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 23, 2025	Valid	Initial Release

Note: The original test report AGC14499240405FR02 (dated Jun. 14, 2024 and tested from May 06, 2024~Jun. 12, 2024) was modified on Jun. 23, 2025, including the following changes and additions:

-Updated the names and addresses of the applicant and manufacturer

-Added a battery, see below for details:

Original:

Battery 1# Information	Model: YJ563170 Rated Voltage & Cap.: DC 3.8V 1900mA 7.22Wh Manufacturer name: YJ
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Increases:

Battery 2# Information	Model: 543171PN3 Rated Voltage & Cap.: DC 3.8V 1900mAh 7.22Wh Manufacturer name: Chongqing VDL New Energy Co., Ltd.
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For the above change (s), it is considered necessary to add the following tests:

Clause	Testing
§15.209	Radiated Emission
§15.207	AC Power Line Conducted Emission

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Table of Contents

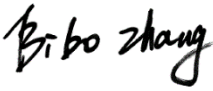
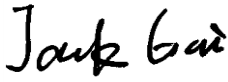
1. General Information	4
2. Product Information	5
2.1 Product Technical Description	5
2.2 Test Frequency List	5
2.3 Related Submittal(S) / Grant (S)	6
2.4 Test Methodology	6
2.5 Receiver Input Bandwidth	6
2.6 Equally Average Use of Frequencies and Behaviour.....	6
2.7 Pseudorandom Frequency Hopping Sequence	7
2.8 Special Accessories	8
2.9 Equipment Modifications	8
2.10 Antenna Requirement	8
3. Test Environment	9
3.1 Address of The Test Laboratory	9
3.2 Test Facility	9
3.3 Environmental Conditions	10
3.4 Measurement Uncertainty	10
3.5 List of Equipment Used	11
4.System Test Configuration.....	12
4.1 EUT Configuration.....	12
4.2 EUT Exercise.....	12
4.3 Configuration of Tested System	12
4.4 Equipment Used in Tested System.....	12
4.5 Summary of Test Results	13
5. Description of Test Modes	14
6. Radiated Spurious Emission	15
6.1 Measurement Limit.....	15
6.2 Measurement Procedure.....	15
6.3 Measurement Setup (Block Diagram of Configuration)	18
6.4 Measurement Result	19
7. AC Power Line Conducted Emission Test.....	39
7.1 Measurement Limit.....	39
7.2 Measurement Setup (Block Diagram of Configuration)	39
7.3 Preliminary Procedure of Line Conducted Emission Test	40
7.4 Final Procedure of Line Conducted Emission Test.....	40
7.5 Measurement Results	40
Appendix I: Photographs of Test Setup.....	49
Appendix II: Photographs of Test EUT	49

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1. General Information

Applicant	Fanvil Link Technology Co.,LTD
Address	13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, Guangdong, 518000 China
Manufacturer	Fanvil Link Technology Co.,LTD
Address	13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, Guangdong, 518000 China
Product Designation	Portable DECT Phone
Brand Name	LINKVIL
Test Model	W610D
Series Model(s)	W610DP, W710P, W610P
Difference Description	Only the model names are different.
Date of receipt of test item	May 06, 2024
Date of Test	May 06, 2024~Jun. 12, 2024
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-BR_EDR-V1

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

Prepared By		
	Bibo Zhang (Project Engineer)	Jun. 23, 2025
Reviewed By		
	Jack Gui (Reviewer)	Jun. 23, 2025
Approved By		
	Angela Li (Authorized Officer)	Jun. 23, 2025

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2. Product Information

2.1 Product Technical Description

Frequency Band	2400MHz-2483.5MHz
Operation Frequency Range	2402MHz-2480MHz
Bluetooth Version	V5.0
Modulation Type	BR ☒ GFSK, EDR ☒ π /4-DQPSK, ☒ 8DPSK
Number of channels	79 Channels
Channel Separation	1 MHz
Maximum Transmitter Power	3.056dBm
Hardware Version	V1.0
Software Version	T0.4.8.5
Antenna Designation	Integral Antenna
Antenna Gain	3.7dBi
Power Supply	DC 3.8V, 1900mAh by battery or charging for DC 5V by adapter

2.2 Test Frequency List

Frequency Band	Channel Number	Test Frequency
2400~2483.5MHz	0	2402 MHz
	1	2403 MHz
	:	:
	39	2441MHz
	:	:
	77	2479 MHz
	78	2480 MHz

Note: $f = 2402 + 1k \text{ MHz}$, $k = 0, \dots, 78$; “f” is the operating frequency (MHz); “k” is the operating channel.

2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2BCUQ-W610D**, 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 Receiver Input Bandwidth

The input bandwidth of the receiver is 1.3MHz, in every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally, the type of connection (e.g. single or multi slot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also, the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.6 Equally Average Use of Frequencies and Behaviour.

The generation of the hopping sequence in connection mode depends essentially on two input values:

1. LAP/UAP of the master of the connection.
2. Internal master clock.

The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24MSB's of the 48BD_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For behavior action with other units only offset is used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30).

In most case it is implemented as 28 bits counter. For the deriving of the hopping sequence the entire. LAP (24 bits),4LSB's(4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended.

The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer (and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always differ from the first one.

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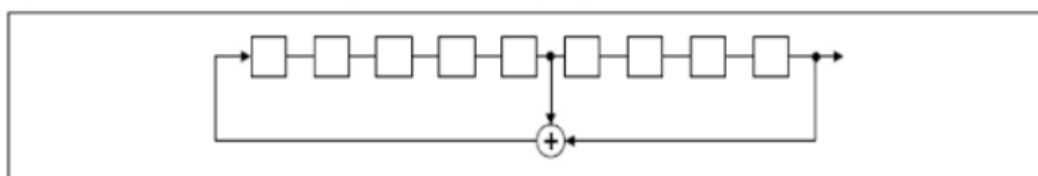
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2.7 Pseudorandom Frequency Hopping Sequence

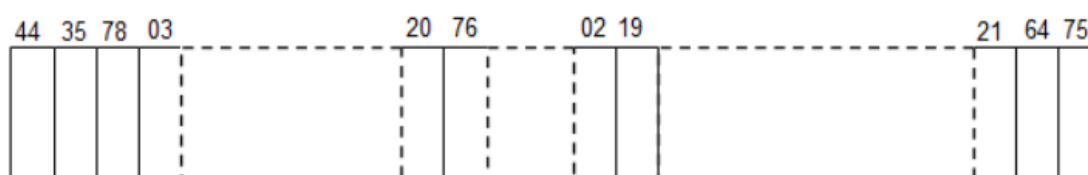
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of The PRBS Sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their Corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

2.8 Special Accessories

Not available for this EUT intended for grant.

2.9 Equipment Modifications

Not available for this EUT intended for grant.

2.10 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 3.7dBi.

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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.

3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 3.8V

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 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)
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	100096	2025-01-14	2026-01-13
☐	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-E102	Antenna	ETS	3117	00154520	2025-05-18	2026-05-17
☒	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2025-05-16	2026-05-15
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	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)
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-A171	10dB Attenuator	Mini-Circuits	UNAT-10A+	N/A	2024-02-01	2026-01-31
☒	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
☐	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☒	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
☒	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
☒	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

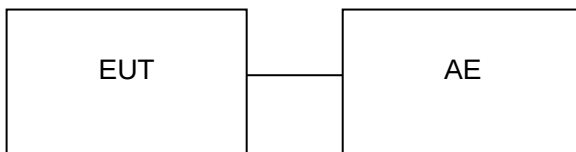
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

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	Control Box	N/A	USB-TTL	N/A	N/A
2	Earphone	CXT	N/A	N/A	1.2m unshielded

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Adapter 1#	Dongguan City Gangqi Electronic Co. LTD.	GQ12-050200-AU	Input: 100-240V~ 50/60Hz, 0.4A Output: DC 5V=2A	1.3m unshielded
2	Adapter 2#	CHENZHOUE FRECOM ELECTRONICS CO., LTD	F12L20-050200SPAU	Input: 100-240V~ 50/60Hz 0.3A Output: 5V=2A	1.3m unshielded
3	Battery	YJ	YJ563170	DC 3.8V 1900mA 7.22Wh	N/A
4	Battery	Chongqing VDL New Energy Co., Ltd.	543171PN3	DC 3.8V, 1900mAh, 7.22Wh	N/A
5	Bottom socket power supply	LINVIL	N/A	Input: DC 5V 2A Output: DC 4.35V	N/A
6	Back Clip	N/A	N/A	N/A	N/A

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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.209	Radiated Emission	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 – BR_EDR (GFSK/π /4-DQPSK/8DPSK)
Radiated & Conducted Test Cases	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps (Battery powered or AC/DC adapter)
	Mode 2: Bluetooth Tx CH39_2441 MHz_1Mbps (Battery powered or AC/DC adapter)
	Mode 3: Bluetooth Tx CH78_2480 MHz_1Mbps (Battery powered or AC/DC adapter)
	Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps (Battery powered or AC/DC adapter)
	Mode 5: Bluetooth Tx CH39_2441 MHz_2Mbps (Battery powered or AC/DC adapter)
	Mode 6: Bluetooth Tx CH78_2480 MHz_2Mbps (Battery powered or AC/DC adapter)
	Mode 7: Bluetooth Tx CH00_2402 MHz_3Mbps (Battery powered or AC/DC adapter)
	Mode 8: Bluetooth Tx CH39_2441 MHz_3Mbps (Battery powered or AC/DC adapter)
	Mode 9: Bluetooth Tx CH78_2480 MHz_3Mbps (Battery powered or AC/DC adapter)
	Mode10: Bluetooth Tx Hopping-1Mbps (Battery powered or AC/DC adapter)
	Mode11: Bluetooth Tx Hopping-2Mbps (Battery powered or AC/DC adapter)
	Mode12: Bluetooth Tx Hopping-3Mbps (Battery powered or AC/DC adapter)
AC Conducted Emission	Mode 1: Bluetooth Link + Battery + USB Cable (Charging from AC Adapter1#)
	Mode 2: Bluetooth Link + Battery + USB Cable (Charging from AC Adapter2#)

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 manufacture.

Software Setting Diagram



```

telnet 172.18.17.5
(home) login: root
Password:
login: can't chdir to home directory '/home/root'
# killall rtk_btattach
# killall bluetoothd
# hciconfig
# echo 0 > /sys/class/gpio/gpio49/value
# echo 1 > /sys/class/gpio/gpio49/value
# rtlibmp
::: Bluetooth MP Test Tool Starting 2021.04.14 :::::
enable uart:/dev/ttyS2
> enable[Success:0]
bt_mp_Exec 1
bt_mp_Exec[Success:0]
bt_mp_Exec, 1.0x00
bt_mp_Exec 0
bt_mp_Exec[Success:0]
bt_mp_Exec, 0.0x00

```

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6. Radiated Spurious Emission

6.1 Measurement Limit

15.209 Limit in the below table has 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 0.8 or 1.5 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.

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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.

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**

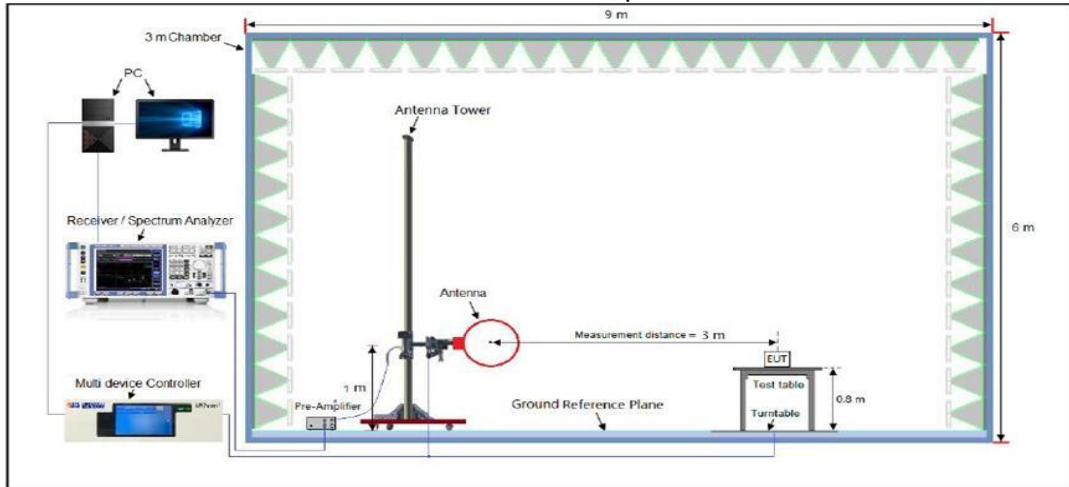
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

- **Average Measurements above 1GHz**

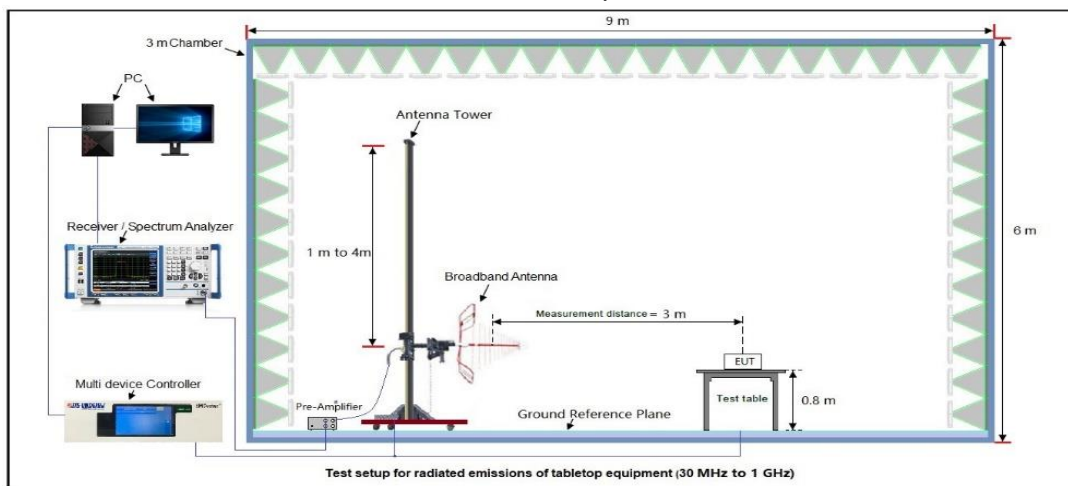
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq [3 \times \text{RBW}]$
4. Detector = Power averaging (rms)
5. Averaging type = power (i.e., rms)
6. Sweep time = auto
7. Perform a trace average of at least 100 traces.
8. The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

6.3 Measurement Setup (Block Diagram of Configuration)

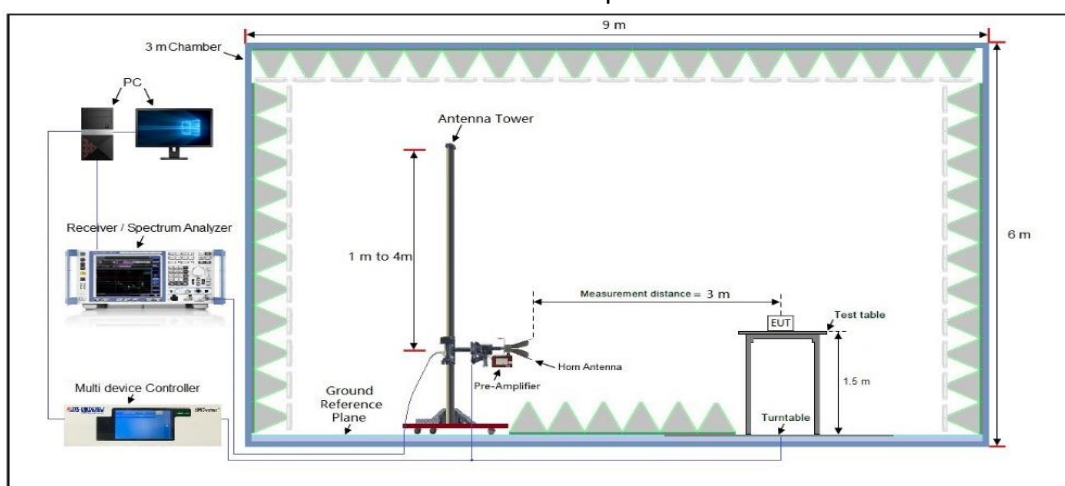
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



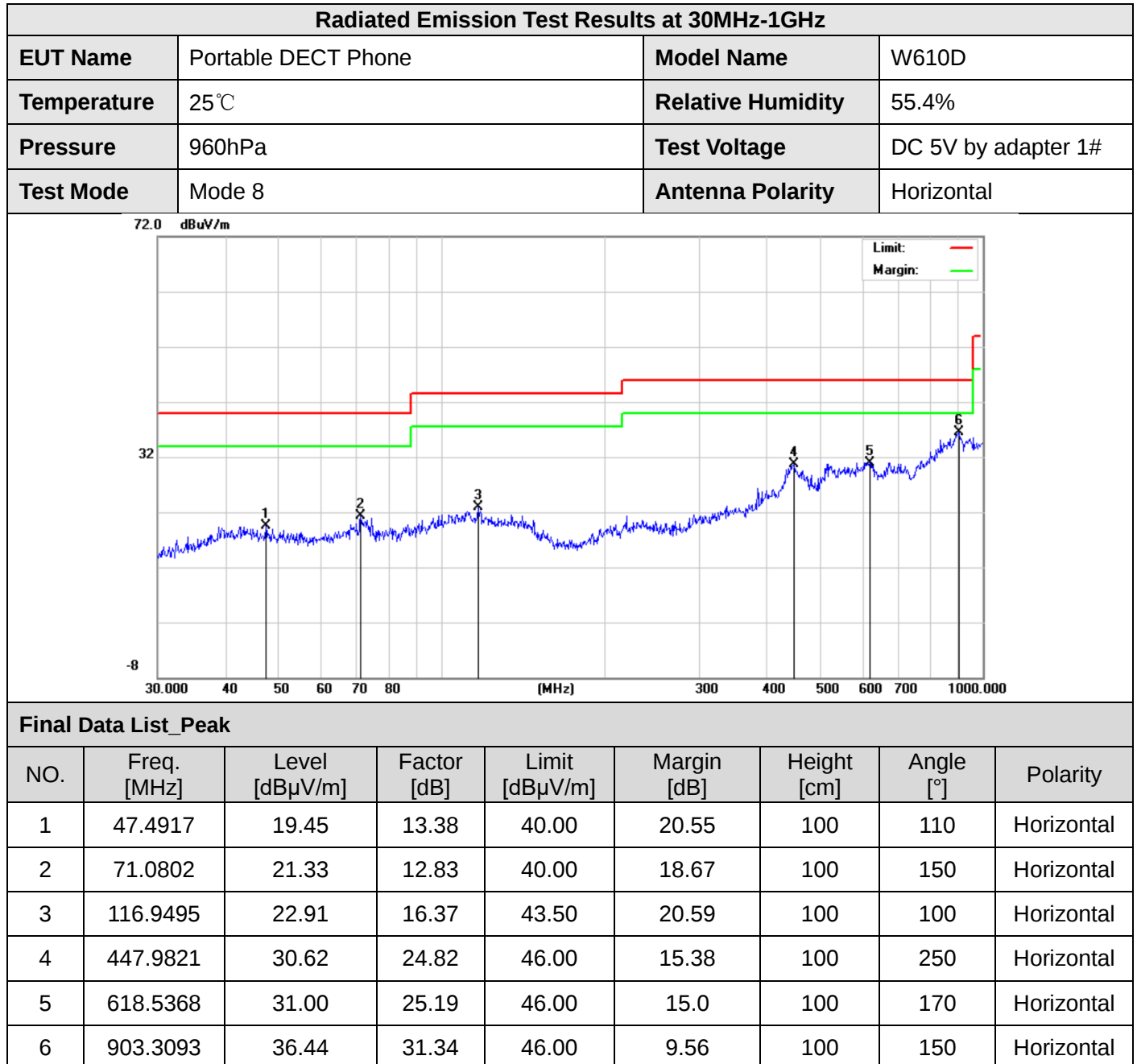
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6.4 Measurement Result

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.

The battery model is YJ563170:



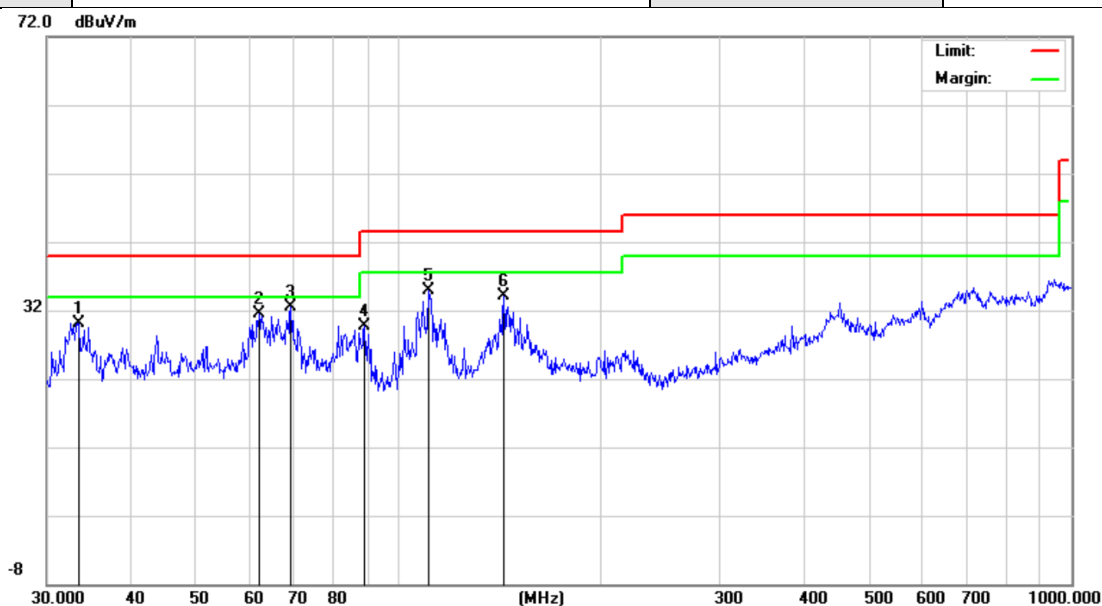
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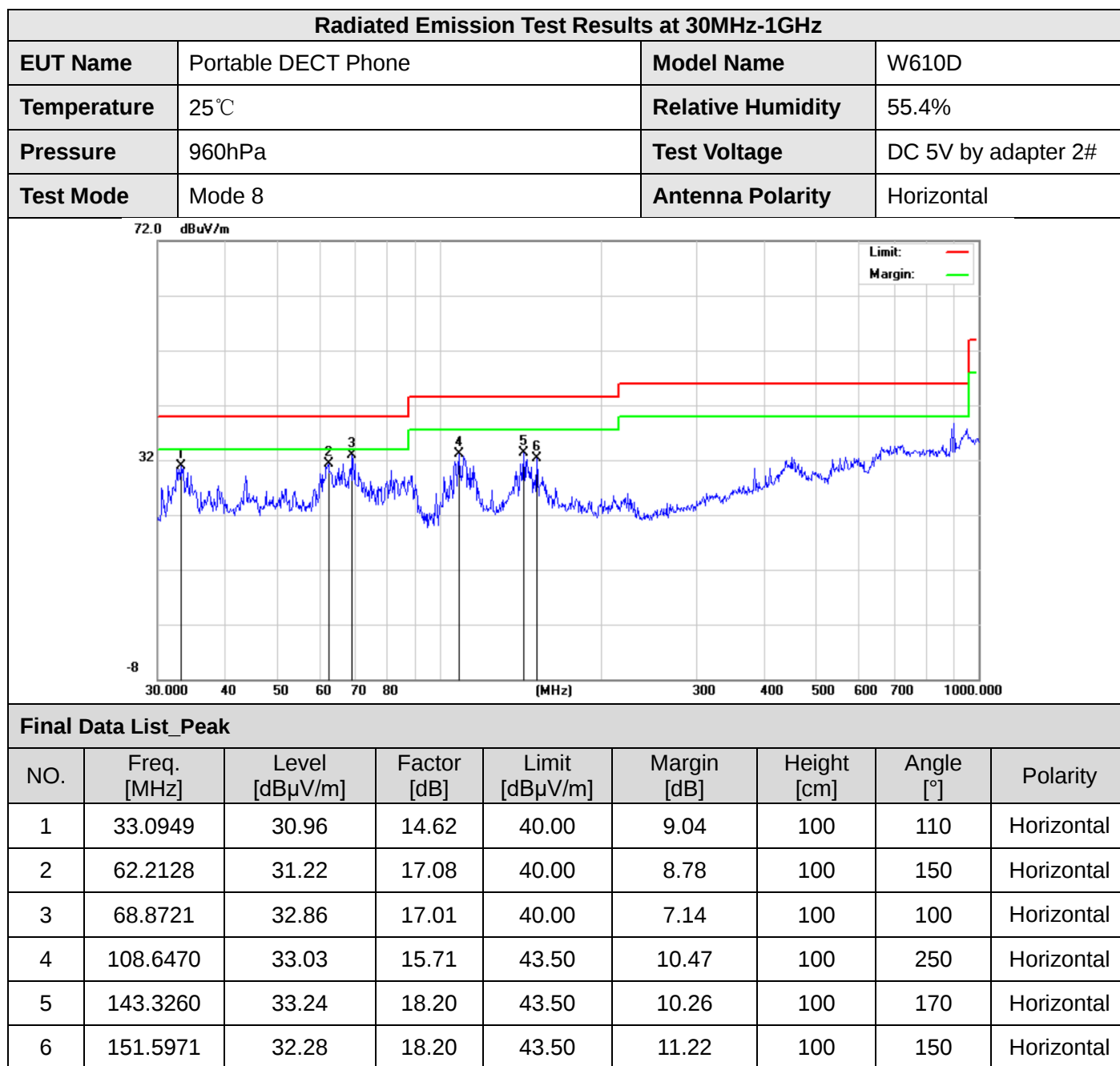
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Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 8	Antenna Polarity	Vertical



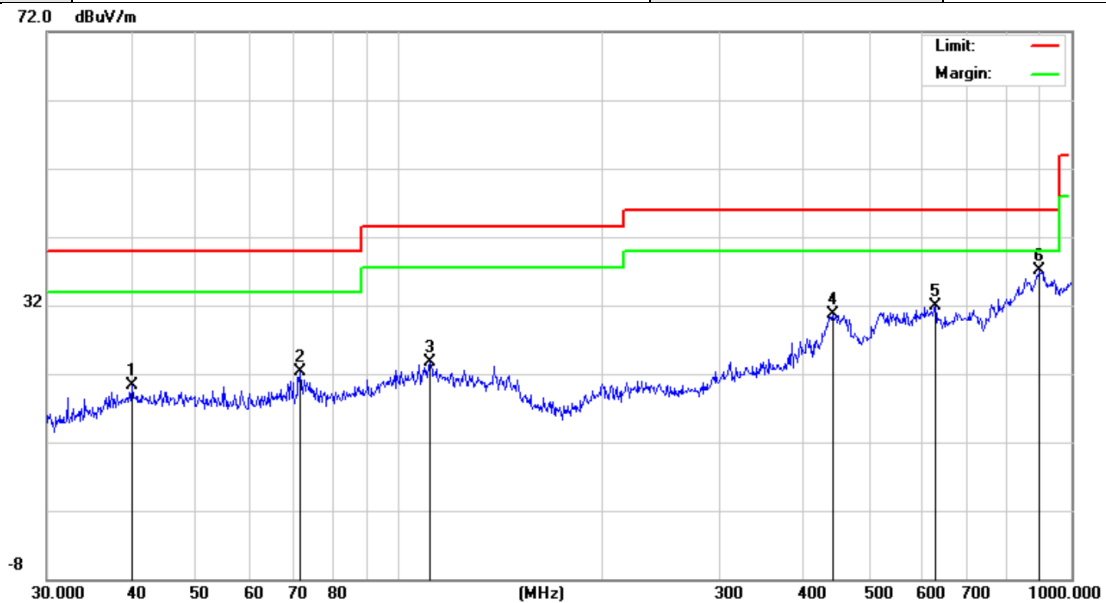
Final Data List_Peak								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.4449	30.12	14.74	40.00	9.88	100	120	Vertical
2	61.9951	31.50	17.08	40.00	8.5	100	150	Vertical
3	69.1141	32.47	17.01	40.00	7.53	100	80	Vertical
4	88.9639	29.76	15.69	43.50	13.74	100	210	Vertical
5	110.5687	34.97	16.05	43.50	8.53	100	190	Vertical
6	143.3261	34.18	18.20	43.50	9.32	100	170	Vertical

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Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 8	Antenna Polarity	Vertical



Final Data List_Peak								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.1347	20.21	13.89	40.00	19.79	100	150	Vertical
2	71.3299	22.22	12.84	40.00	17.78	100	110	Vertical
3	111.3468	23.68	16.31	43.50	19.82	100	70	Vertical
4	441.7425	30.79	25.04	46.00	15.21	100	200	Vertical
5	627.2738	31.83	24.51	46.00	14.17	100	170	Vertical
6	896.9964	37.17	31.42	46.00	8.83	100	160	Vertical

RESULT: Pass

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

2. All test modes had been pre-tested. The mode 8 is the worst case and recorded in the report.

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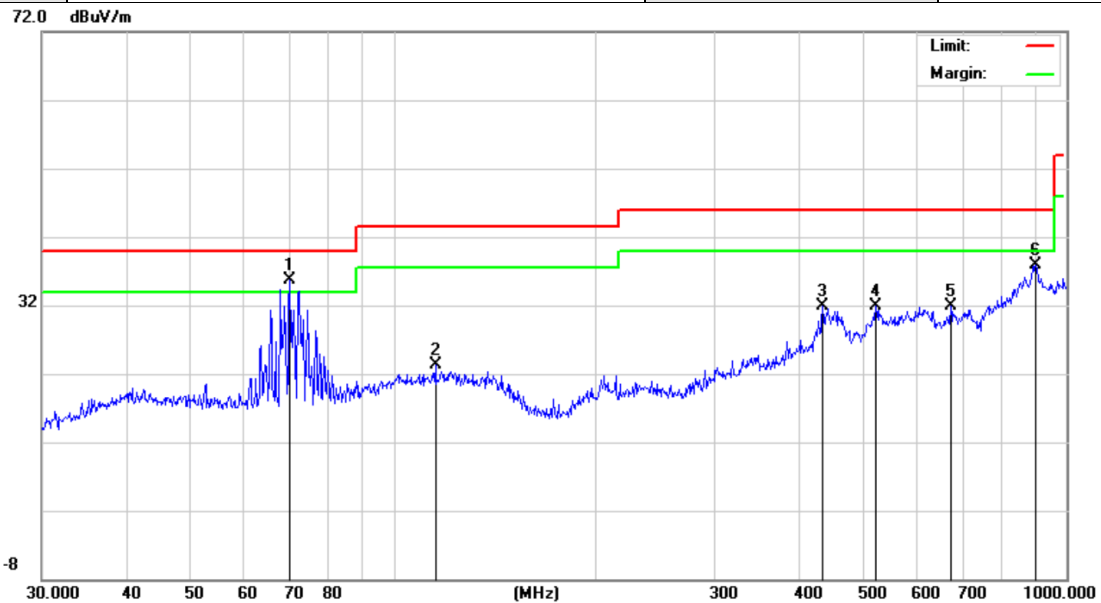
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The battery model is 543171PN3:

Radiated Emission Test Results at 30MHz-1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 8	Antenna Polarity	Horizontal



Final Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	70.0902	35.62	12.80	40.00	4.38	100	110	Horizontal
2	115.3205	23.26	16.35	43.50	20.24	100	150	Horizontal
3	434.0651	31.87	23.82	46.00	14.13	100	100	Horizontal
4	520.8882	31.89	25.14	46.00	14.11	100	250	Horizontal
5	672.8444	31.81	24.27	46.00	14.19	100	170	Horizontal
6	900.1474	37.85	31.78	46.00	8.15	100	140	Horizontal

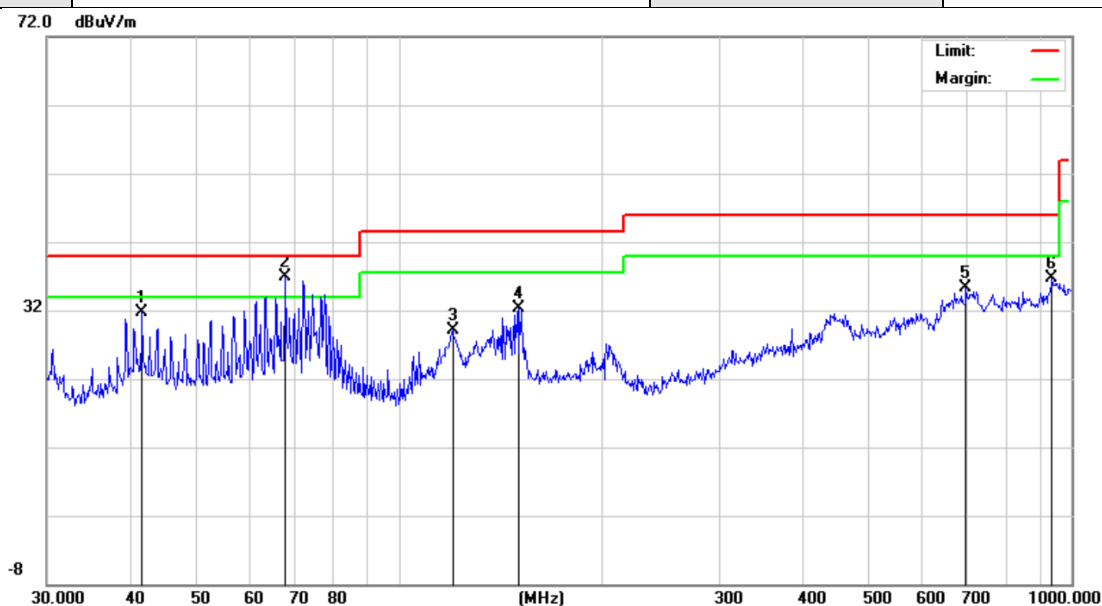
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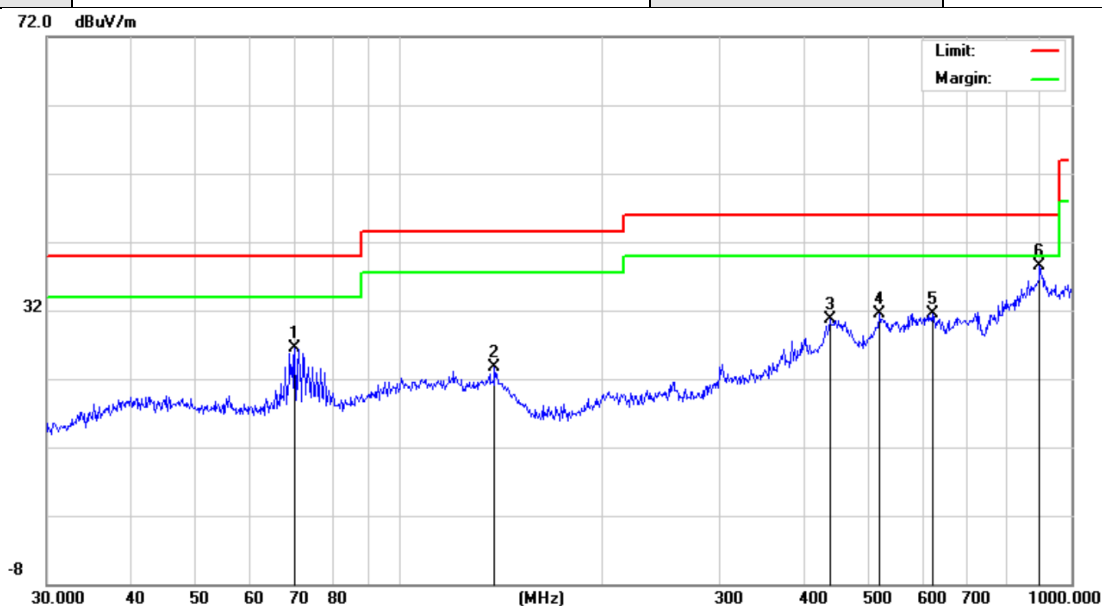
Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 8	Antenna Polarity	Vertical



Final Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.5670	31.80	16.92	40.00	8.2	100	10	Vertical
2	67.9128	36.89	17.02	40.00	3.11	100	150	Vertical
3	120.2766	29.07	17.71	43.50	14.43	100	90	Vertical
4	151.0666	32.26	18.20	43.50	11.24	100	160	Vertical
5	696.8567	35.28	28.04	46.00	10.72	100	190	Vertical
6	935.5463	36.63	30.40	46.00	9.37	100	150	Vertical

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Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 8	Antenna Polarity	Horizontal

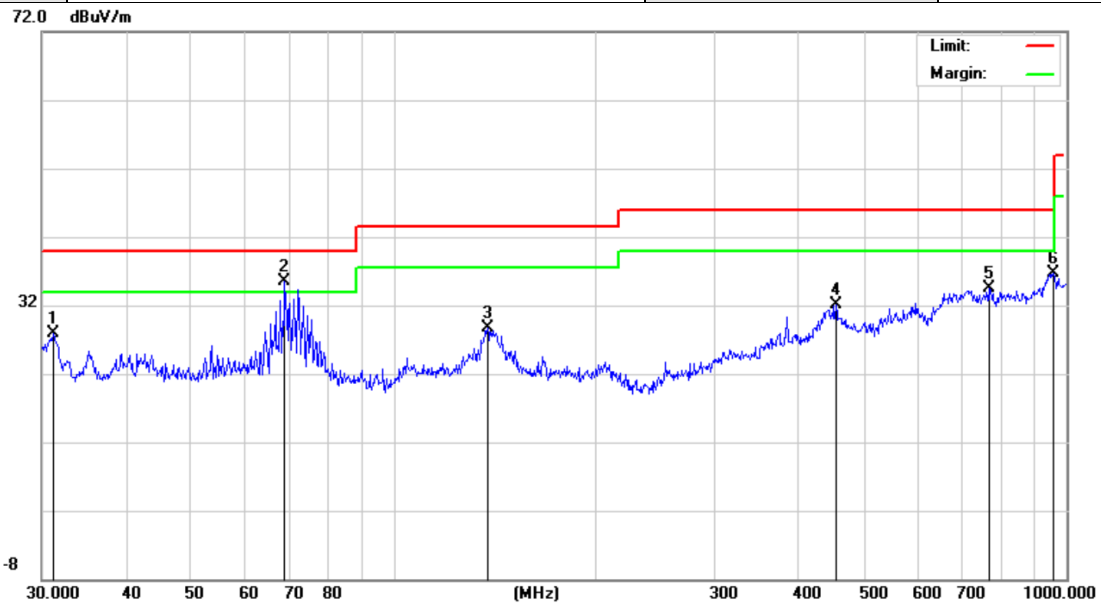


Final Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	70.0902	26.60	12.80	40.00	13.4	100	130	Horizontal
2	138.8735	23.75	15.27	43.50	19.75	100	110	Horizontal
3	437.1197	30.75	24.48	46.00	15.25	100	160	Horizontal
4	519.0647	31.44	25.05	46.00	14.56	100	220	Horizontal
5	620.7096	31.52	25.13	46.00	14.48	100	180	Horizontal
6	896.9965	38.45	31.42	46.00	7.55	100	110	Horizontal

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Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 8	Antenna Polarity	Vertical



Final Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.1798	27.85	13.99	40.00	12.15	100	210	Vertical
2	68.8721	35.41	17.01	40.00	4.59	100	170	Vertical
3	137.9028	28.68	18.15	43.50	14.82	100	160	Vertical
4	454.3100	32.13	25.46	46.00	13.87	100	250	Vertical
5	766.0570	34.58	27.96	46.00	11.42	100	100	Vertical
6	955.4380	36.69	30.38	46.00	9.31	100	160	Vertical

RESULT: Pass

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

2. All test modes had been pre-tested. The mode 8 is the worst case and recorded in the report.

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**The battery model is YJ563170:
Radiated Emissions Test Results Above 1GHz**

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 7	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804.000	49.33	0.08	49.41	74.00	-24.59	peak
4804.000	41.28	0.08	41.36	54.00	-12.64	AVG
7206.000	49.27	2.21	51.48	74.00	-22.52	peak
7206.000	39.64	2.21	41.85	54.00	-12.15	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 7	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804.000	48.78	0.08	48.86	74.00	-25.14	peak
4804.000	40.71	0.08	40.79	54.00	-13.21	AVG
7206.000	48.33	2.21	50.54	74.00	-23.46	peak
7206.000	38.64	2.21	40.85	54.00	-13.15	AVG

Remark:

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

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 8	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.000	50.77	0.14	50.91	74.00	-23.09	pea
4882.000	40.43	0.14	40.57	54.00	-13.43	AVG
7323.000	49.61	2.36	51.97	74.00	-22.03	peak
7323.000	40.39	2.36	42.75	54.00	-11.25	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 8	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.000	50.25	0.14	50.39	74.00	-23.61	peak
4882.000	41.34	0.14	41.48	54.00	-12.52	AVG
7323.000	48.37	2.36	50.73	74.00	-23.27	peak
7323.000	41.36	2.36	43.72	54.00	-10.28	AVG

Remark:

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

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 9	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.000	49.34	0.22	49.56	74.00	-24.44	peak
4960.000	41.15	0.22	41.37	54.00	-12.63	AVG
7440.000	48.37	2.64	51.01	74.00	-22.99	peak
7440.000	39.52	2.64	42.16	54.00	-11.84	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 9	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.000	49.34	0.22	49.56	74.00	-24.44	peak
4960.000	40.39	0.22	40.61	54.00	-13.39	AVG
7440.000	49.64	2.64	52.28	74.00	-21.72	peak
7440.000	39.91	2.64	42.55	54.00	-11.45	AVG

Remark:

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

RESULT: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 7	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804.000	49.61	0.08	49.69	74.00	-24.31	peak
4804.000	39.58	0.08	39.66	54.00	-14.34	AVG
7206.000	49.74	2.21	51.95	74.00	-22.05	peak
7206.000	39.65	2.21	41.86	54.00	-12.14	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 7	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804.000	50.36	0.08	50.44	74.00	-23.56	peak
4804.000	40.79	0.08	40.87	54.00	-13.13	AVG
7206.000	50.22	2.21	52.43	74.00	-21.57	peak
7206.000	40.57	2.21	42.78	54.00	-11.22	AVG

Remark:

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

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 8	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
48824.000	49.78	0.14	49.92	74.00	-24.08	peak
48824.000	40.11	0.14	40.25	54.00	-13.75	AVG
7323.000	48.35	2.36	50.71	74.00	-23.29	peak
7323.000	40.13	2.36	42.49	54.00	-11.51	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 8	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
48824.000	50.69	0.14	50.83	74.00	-23.17	peak
48824.000	39.88	0.14	40.02	54.00	-13.98	AVG
7323.000	49.37	2.36	51.73	74.00	-22.27	peak
7323.000	39.41	2.36	41.77	54.00	-12.23	AVG

Remark:

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

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 9	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.000	50.36	0.22	50.58	74.00	-23.42	peak
4960.000	41.64	0.22	41.86	54.00	-12.14	AVG
7440.000	48.47	2.64	51.11	74.00	-22.89	peak
7440.000	38.59	2.64	41.23	54.00	-12.77	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 9	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.000	49.39	0.22	49.61	74.00	-24.39	peak
4960.000	40.31	0.22	40.53	54.00	-13.47	AVG
7440.000	47.36	2.64	50.00	74.00	-24.00	peak
7440.000	39.43	2.64	42.07	54.00	-11.93	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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**The battery model is 543171PN3:
Radiated Emissions Test Results Above 1GHz**

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 7	Antenna Polarity	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	46.99	0.08	47.07	74	-26.93	peak
4804.000	37.79	0.08	37.87	54	-16.13	AVG
7206.000	41.01	2.21	43.22	74	-30.78	peak
7206.000	32.57	2.21	34.78	54	-19.22	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 7	Antenna Polarity	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	46.99	0.08	47.07	74	-26.93	peak
4804.000	37.02	0.08	37.10	54	-16.90	AVG
7206.000	41.62	2.21	43.83	74	-30.17	peak
7206.000	32.40	2.21	34.61	54	-19.39	AVG

Remark:

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

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 8	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.000	46.32	0.08	46.40	74	-27.60	peak
4882.000	37.68	0.08	37.76	54	-16.24	AVG
7323.000	41.13	2.21	43.34	74	-30.66	peak
7323.000	32.35	2.21	34.56	54	-19.44	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 8	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.000	46.47	0.08	46.55	74	-27.45	peak
4882.000	37.71	0.08	37.79	54	-16.21	AVG
7323.000	41.89	2.21	44.10	74	-29.90	peak
7323.000	32.95	2.21	35.16	54	-18.84	AVG

Remark:

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

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 9	Antenna Polarity	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	46.87	0.08	46.95	74	-27.05	peak
4960.000	37.58	0.08	37.66	54	-16.34	AVG
7440.000	41.29	2.21	43.50	74	-30.50	peak
7440.000	32.66	2.21	34.87	54	-19.13	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 1#
Test Mode	Mode 9	Antenna Polarity	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	46.55	0.08	46.63	74	-27.37	peak
4960.000	37.14	0.08	37.22	54	-16.78	AVG
7440.000	41.52	2.21	43.73	74	-30.27	peak
7440.000	32.90	2.21	35.11	54	-18.89	AVG

Remark:

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

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Radiated Emissions Test Results Above 1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 7	Antenna Polarity	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	46.12	0.08	46.20	74	-27.80	peak
4804.000	37.31	0.08	37.39	54	-16.61	AVG
7206.000	41.19	2.21	43.40	74	-30.60	peak
7206.000	32.01	2.21	34.22	54	-19.78	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 7	Antenna Polarity	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	46.02	0.08	46.10	74	-27.90	peak
4804.000	37.23	0.08	37.31	54	-16.69	AVG
7206.000	41.35	2.21	43.56	74	-30.44	peak
7206.000	32.94	2.21	35.15	54	-18.85	AVG

Remark:

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

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 8	Antenna Polarity	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	46.91	0.08	46.99	74	-27.01	peak
4882.000	37.49	0.08	37.57	54	-16.43	AVG
7323.000	41.24	2.21	43.45	74	-30.55	peak
7323.000	32.64	2.21	34.85	54	-19.15	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 8	Antenna Polarity	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	46.84	0.08	46.92	74	-27.08	peak
4882.000	37.13	0.08	37.21	54	-16.79	AVG
7323.000	41.01	2.21	43.22	74	-30.78	peak
7323.000	32.87	2.21	35.08	54	-18.92	AVG

Remark:

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

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 9	Antenna Polarity	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	46.66	0.08	46.74	74	-27.26	peak
4960.000	37.57	0.08	37.65	54	-16.35	AVG
7440.000	41.22	2.21	43.43	74	-30.57	peak
7440.000	32.09	2.21	34.30	54	-19.70	AVG

Remark:

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

EUT Name	Portable DECT Phone	Model Name	W610D
Temperature	22.8℃	Relative Humidity	54.0%
Pressure	960hPa	Test Voltage	DC 5V by adapter 2#
Test Mode	Mode 9	Antenna Polarity	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	46.15	0.08	46.23	74	-27.77	peak
4960.000	37.74	0.08	37.82	54	-16.18	AVG
7440.000	41.63	2.21	43.84	74	-30.16	peak
7440.000	32.69	2.21	34.90	54	-19.10	AVG

Remark:

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

RESULT: Pass

Note:

- The amplitude of other spurious emissions from 1G to 40 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
- The “Factor” value can be calculated automatically by software of measurement system.

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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7. AC Power Line Conducted Emission Test

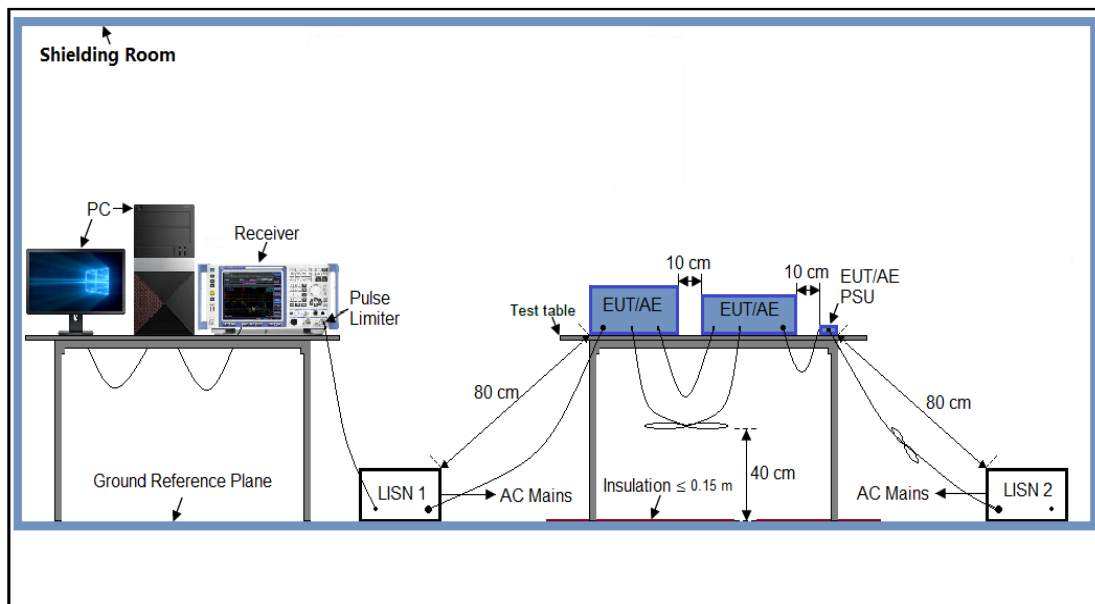
7.1 Measurement Limit

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 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 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). 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 condition(s) was reported on the Summary Data page.

7.5 Measurement Results

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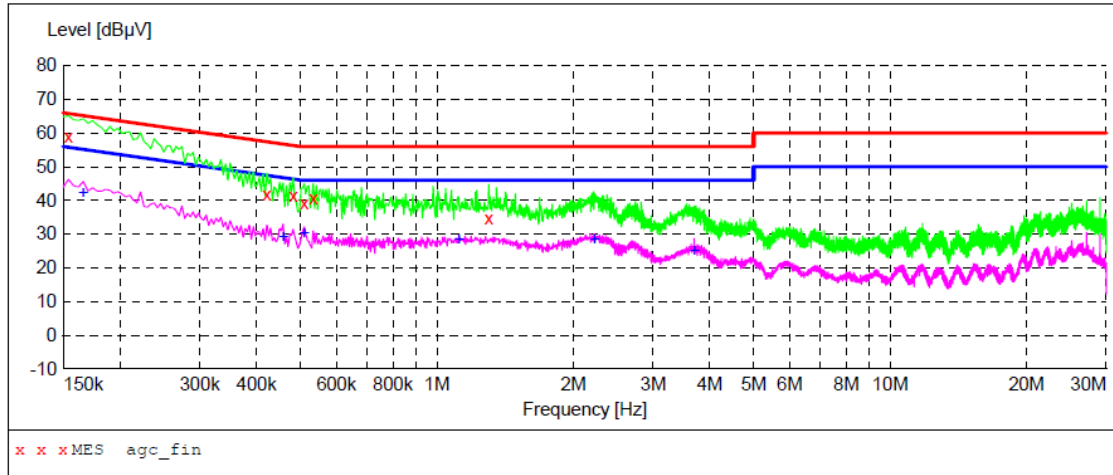
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The battery model is YJ563170:

AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Hot Side
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**MEASUREMENT RESULT: "agc_fin"**

2024/5/20 11:14

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.154000	59.00	6.1	66	6.8	QP	L1
0.422000	41.60	6.1	57	15.8	QP	L1
0.482000	41.50	6.1	56	14.8	QP	L1
0.510000	39.20	6.2	56	16.8	QP	L1
0.534000	40.70	6.2	56	15.3	QP	L1
1.302000	34.50	6.2	56	21.5	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2024/5/20 11:14

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.166000	42.00	6.1	55	13.2	AV	L1
0.458000	29.20	6.1	47	17.5	AV	L1
0.510000	30.10	6.2	46	15.9	AV	L1
1.118000	28.20	6.2	46	17.8	AV	L1
2.226000	28.30	6.3	46	17.7	AV	L1
3.698000	25.00	6.3	46	21.0	AV	L1

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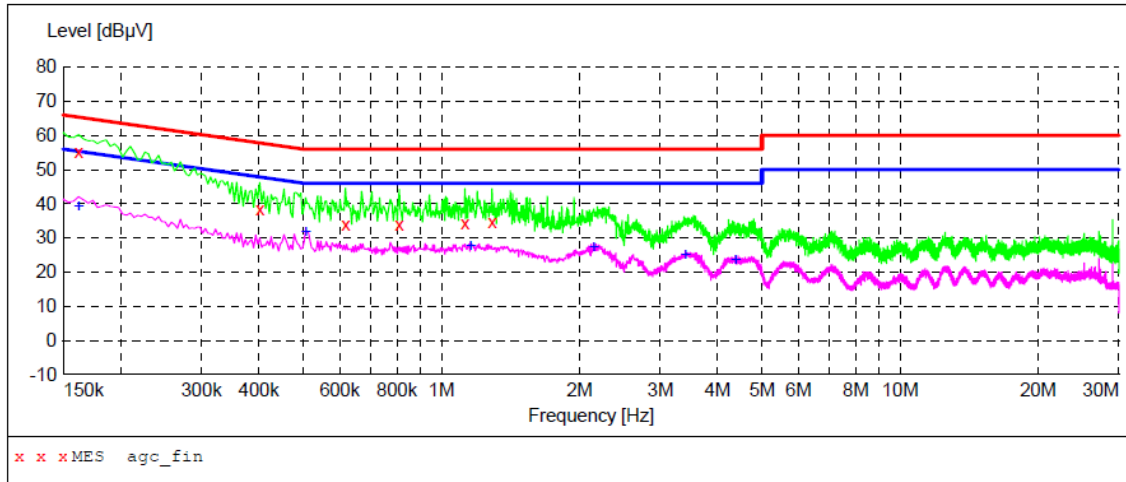
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AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Neutral Side
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**MEASUREMENT RESULT: "agc_fin"**

2024/5/20 11:18

Frequency MHz	Level dBμ					
0.162000	55.10	6.1	65	10.3	QP	N
0.402000	38.50	6.1	58	19.3	QP	N
0.618000	33.80	6.2	56	22.2	QP	N
0.810000	33.80	6.2	56	22.2	QP	N
1.126000	34.30	6.2	56	21.7	QP	N
1.290000	34.60	6.2	56	21.4	QP	N

MEASUREMENT RESULT: "agc_fin2"

2024/5/20 11:18

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	39.30	6.1	55	16.1	AV	N
0.506000	31.60	6.2	46	14.4	AV	N
1.158000	27.50	6.2	46	18.5	AV	N
2.150000	27.10	6.2	46	18.9	AV	N
3.406000	25.00	6.3	46	21.0	AV	N
4.378000	23.60	6.3	46	22.4	AV	N

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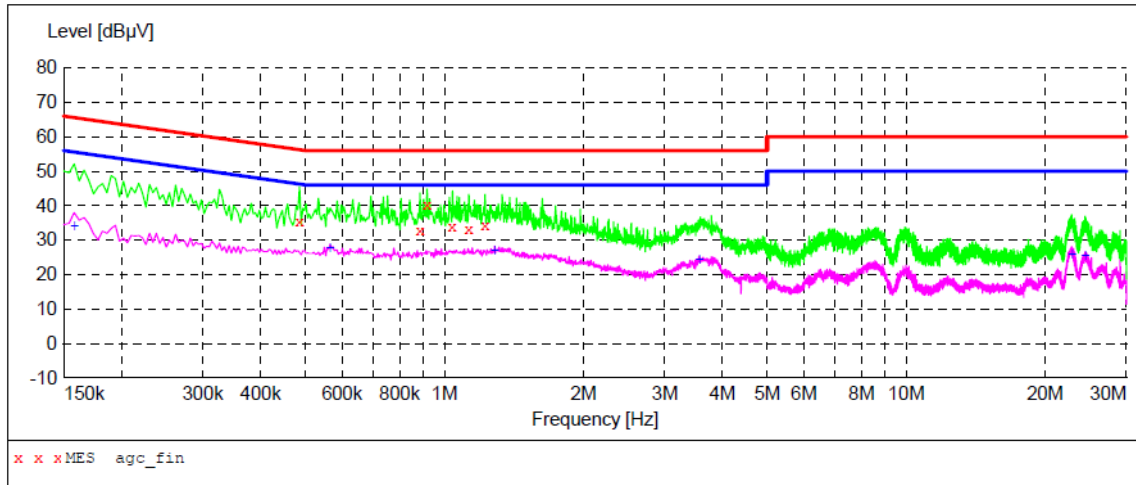
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AC Power Line Conducted Emission Test

Test Mode	Mode 2	LISN Line	Hot Side
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**MEASUREMENT RESULT: "agc_fin"**

2024/5/20 11:25

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.486000	35.20	6.1	56	21.0	QP	L1
0.886000	32.80	6.2	56	23.2	QP	L1
0.918000	40.10	6.2	56	15.9	QP	L1
1.042000	33.70	6.2	56	22.3	QP	L1
1.130000	33.20	6.2	56	22.8	QP	L1
1.226000	34.30	6.2	56	21.7	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2024/5/20 11:25

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	34.00	6.1	56	21.6	AV	L1
0.566000	27.90	6.2	46	18.1	AV	L1
1.286000	27.00	6.2	46	19.0	AV	L1
3.570000	24.30	6.3	46	21.7	AV	L1
22.846000	26.00	7.6	50	24.0	AV	L1
24.418000	25.40	7.9	50	24.6	AV	L1

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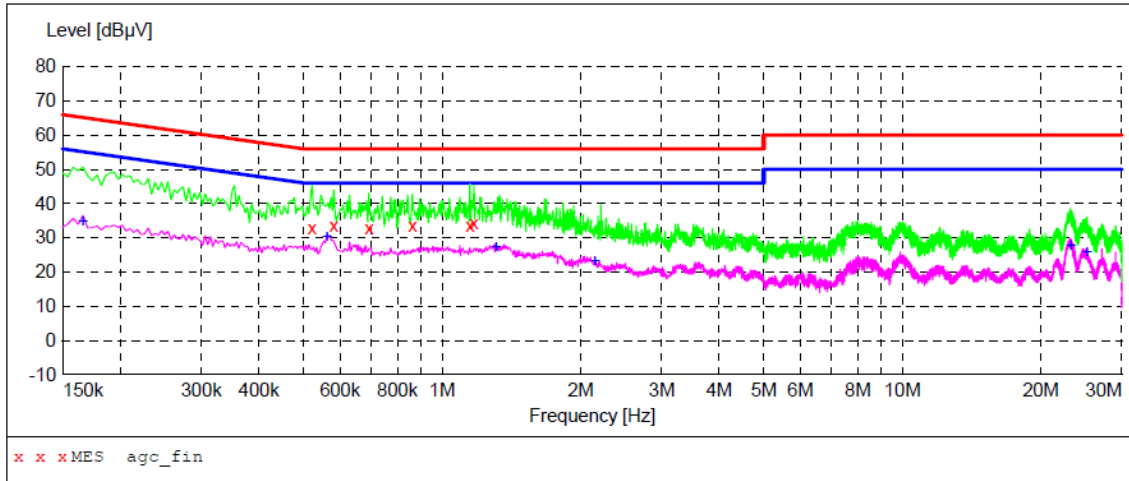
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AC Power Line Conducted Emission Test

Test Mode	Mode 2	LISN Line	Neutral Side
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**MEASUREMENT RESULT: "agc_fin"**

2024/5/20 11:21

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Lir
0.522000	32.70	6.2	56	23.3	QP	N
0.582000	33.70	6.2	56	22.3	QP	N
0.694000	33.00	6.2	56	23.0	QP	N
0.862000	33.40	6.2	56	22.6	QP	N
1.150000	33.70	6.2	56	22.3	QP	N
1.174000	34.40	6.2	56	21.6	QP	N

MEASUREMENT RESULT: "agc_fin2"

2024/5/20 11:21

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Lir
0.166000	34.60	6.1	55	20.6	AV	N
0.562000	30.00	6.2	46	16.0	AV	N
1.310000	27.10	6.2	46	18.9	AV	N
2.150000	23.00	6.2	46	23.0	AV	N
23.214000	27.70	7.7	50	22.3	AV	N
25.190000	25.70	8.0	50	24.3	AV	N

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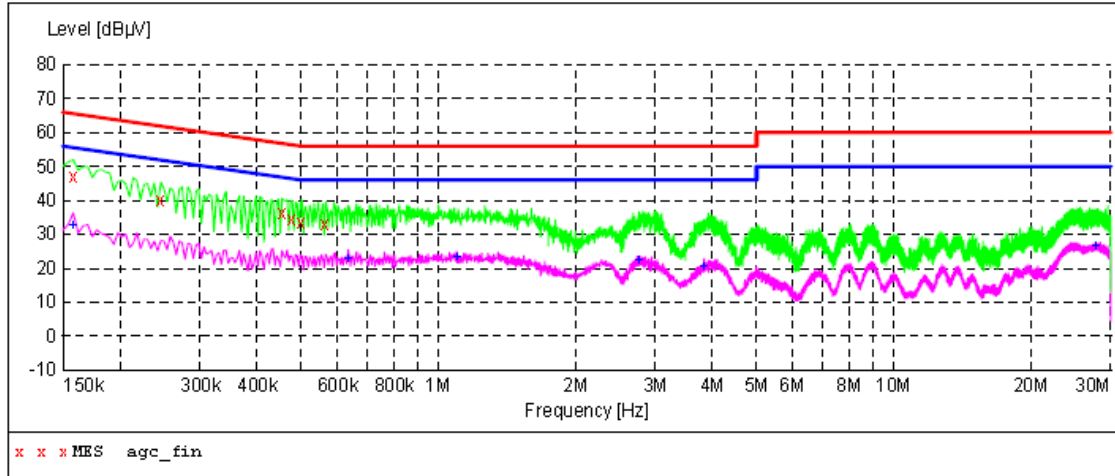
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The battery model is 543171PN3:

AC Power Line Conducted Emission Test

Test Mode	Mode 1(Adapter 1#)	LISN Line	Hot Side
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MEASUREMENT RESULT: "agc_fin"

2025/5/22 18:36

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	46.90	10.3	66	18.7	QP	L1
0.246000	40.20	10.3	62	21.7	QP	L1
0.454000	36.20	10.3	57	20.6	QP	L1
0.478000	34.30	10.3	56	22.1	QP	L1
0.502000	33.50	10.3	56	22.5	QP	L1
0.566000	33.20	10.3	56	22.8	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/5/22 18:36

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	32.60	10.3	56	23.0	AV	L1
0.634000	22.60	10.3	46	23.4	AV	L1
1.098000	23.20	10.4	46	22.8	AV	L1
2.762000	22.10	10.5	46	23.9	AV	L1
3.838000	20.40	10.6	46	25.6	AV	L1
27.778000	26.50	17.5	50	23.5	AV	L1

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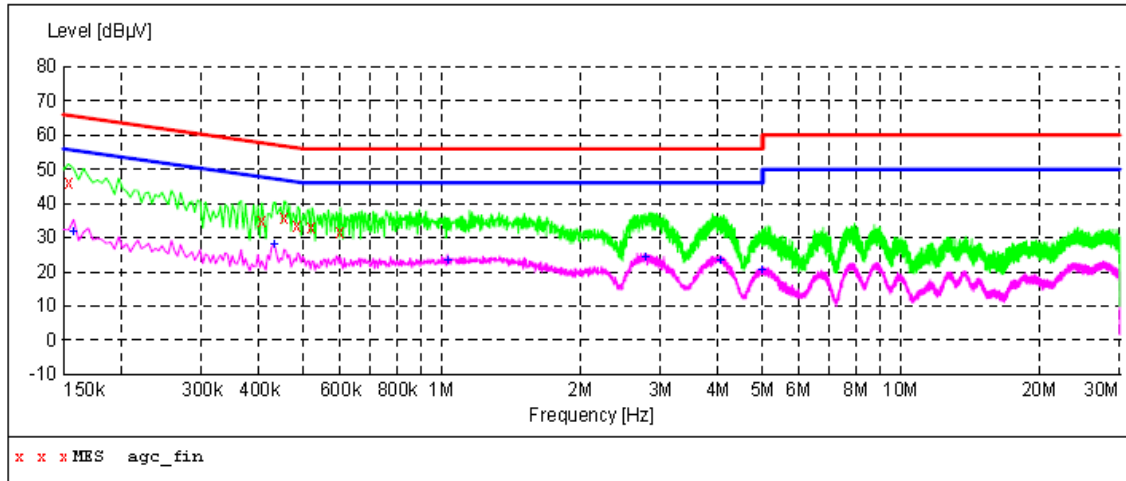
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AC Power Line Conducted Emission Test

Test Mode	Mode 1(Adapter 1#)	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2025/5/22 18:39

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.154000	46.00	10.3	66	19.8	QP	N
0.406000	35.00	10.3	58	22.7	QP	N
0.454000	36.00	10.3	57	20.8	QP	N
0.486000	33.70	10.3	56	22.5	QP	N
0.522000	32.90	10.3	56	23.1	QP	N
0.602000	31.70	10.3	56	24.3	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/5/22 18:39

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	31.80	10.3	56	23.8	AV	N
0.430000	27.80	10.3	47	19.5	AV	N
1.030000	23.20	10.4	46	22.8	AV	N
2.770000	24.00	10.5	46	22.0	AV	N
4.034000	23.30	10.7	46	22.7	AV	N
4.986000	20.30	10.8	46	25.7	AV	N

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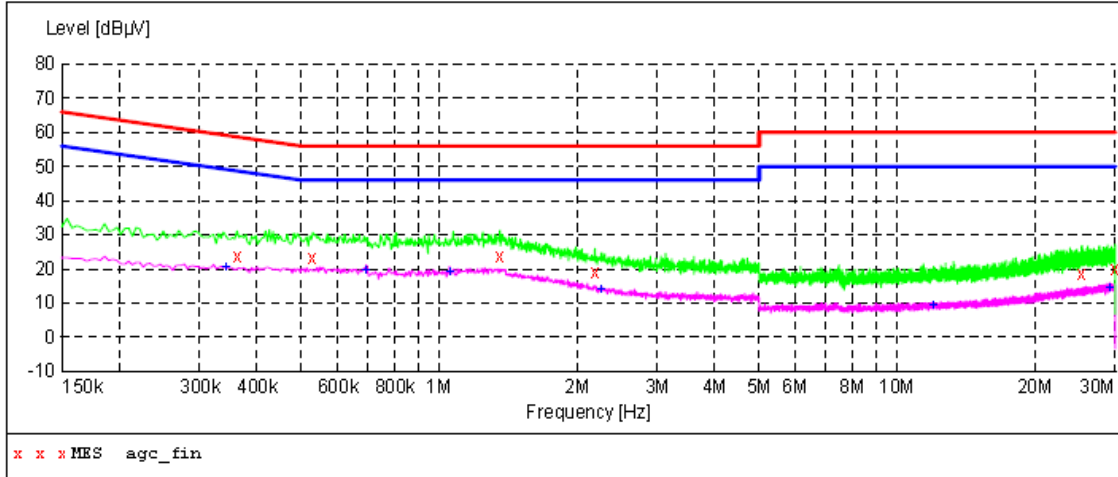
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AC Power Line Conducted Emission Test

Test Mode	Mode 1(Adapter 2#)	LISN Line	Hot Side
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MEASUREMENT RESULT: "agc_fin"

2025/5/22 19:15

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	23.90	10.3	59	34.8	QP	L1
0.530000	23.00	10.3	56	33.0	QP	L1
1.358000	23.70	10.4	56	32.3	QP	L1
2.190000	18.80	10.5	56	37.2	QP	L1
25.390000	18.60	16.7	60	41.4	QP	L1
29.978000	19.80	18.1	60	40.2	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/5/22 19:15

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.342000	20.30	10.3	49	28.9	AV	L1
0.694000	19.50	10.3	46	26.5	AV	L1
1.054000	19.20	10.4	46	26.8	AV	L1
2.258000	14.10	10.5	46	31.9	AV	L1
11.990000	9.30	12.7	50	40.7	AV	L1
29.198000	14.40	17.9	50	35.6	AV	L1

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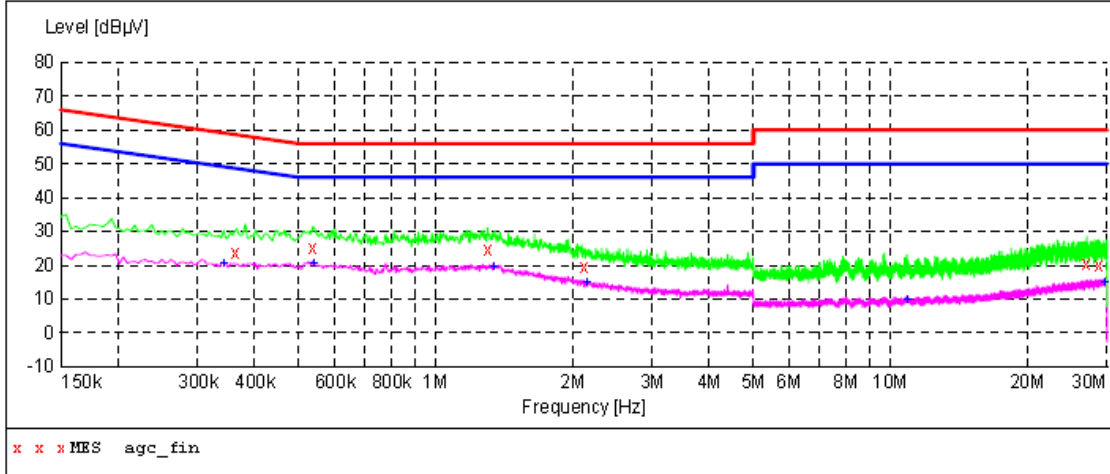
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AC Power Line Conducted Emission Test

Test Mode	Mode 1(Adapter 2#)	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2025/5/22 19:18

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	23.80	10.3	59	34.9	QP	N
0.538000	24.90	10.3	56	31.1	QP	N
1.302000	24.80	10.4	56	31.2	QP	N
2.130000	19.30	10.5	56	36.7	QP	N
27.058000	20.30	17.3	60	39.7	QP	N
28.746000	20.20	17.8	60	39.8	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/5/22 19:18

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.342000	20.40	10.3	49	28.8	AV	N
0.538000	20.40	10.3	46	25.6	AV	N
1.338000	19.60	10.4	46	26.4	AV	N
2.150000	14.70	10.5	46	31.3	AV	N
10.878000	9.60	12.4	50	40.4	AV	N
29.682000	14.70	18.0	50	35.3	AV	N

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC14499240405AP02B

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC14499240405AP03B

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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 of 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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