
AS Test Report

Report No.: AGC16823250801AR01

PRODUCT DESIGNATION : Ruuvi Air
BRAND NAME : Ruuvi
MODEL NAME : Ruuvi Air
APPLICANT : Ruuvi Innovations Ltd.
DATE OF ISSUE : Sep. 08, 2025
STANDARD(S) : AS/NZS CISPR 32:2015+A1:2020
REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 08, 2025	Valid	Initial release

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1. General information

Applicant	Ruuvi Innovations Ltd.
Address	Hameenkatu 10 B 132, RIIHIMAKI 11100, Finland
Manufacturer	Ruuvi Innovations Ltd.
Address	Hameenkatu 10 B 132, RIIHIMAKI 11100, Finland
Factory	Ruuvi Innovations Ltd.
Address	Hameenkatu 10 B 132, RIIHIMAKI 11100, Finland
Product Designation	Ruuvi Air
Brand Name	Ruuvi
Test Model	Ruuvi Air
Series Model(s)	N/A
Difference Description	N/A
Deviation from Standard	No any deviation from the test method
Date of receipt of test item	Aug. 15, 2025
Date of Test	Aug. 15, 2025 to Sep. 05, 2025
Test Result	Pass
Test Report Form No	AGCER-EMC-GEN-V1

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

Prepared By

*Thea Huang*Thea Huang
(Project Engineer)

Sep. 08, 2025

Reviewed By

*Bibo Zhang*Bibo Zhang
(Reviewer)

Sep. 08, 2025

Approved By

*Angela Li*Angela Li
(Authorized Officer)

Sep. 08, 2025

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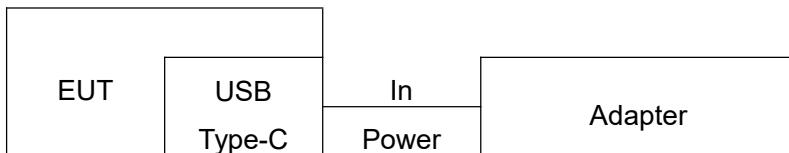
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2. Description of Test Configuration

2.1. Technical Description of Product

Categorization of Equipment	Class B equipment
Test arrangements of EUT	Table-top
Hardware Version	V1.0
Software Version	V1.0
Highest Internal Frequency	Great than 108MHz
Power Supply	DC 5V

Connection Diagram of Host System



I/O Port Information (☒ Applicable ☐ Not Applicable)

Port Type	Input/Output	Number	Cable Description
USB Type-C	In	1	--

2.2. Description of Support Equipment

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Xiaomi Phone	Xiaomi	MI 10	--	--	--
Adapter	Apple	A2452	--	--	--

2.3. Description of Test Modes

No.	Test Mode Description
1	BLE Mode with adapter
2	NFC Mode with adapter
3	Standby Mode with adapter

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3. Summary of Measurement Results and Uncertainty

3.1. Test Specifications

AS/NZS CISPR 32:2015+A1:2020	Electromagnetic compatibility of multimedia equipment - Emission requirements
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3.2. Description of Measurement Results

Test items	Test Standard(s)	Verdict
Conducted emissions from the AC mains power ports	AS/NZS CISPR 32	Pass
Radiated emissions at frequencies up to 1 GHz	AS/NZS CISPR 32	Pass
Radiated emissions at frequencies above 1 GHz	AS/NZS CISPR 32	Pass

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3.3. Description of 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
Conducted emissions from the AC mains power ports	$U_c = \pm 2.9 \text{ dB}$
Radiated emissions at frequencies up to 1 GHz	$U_c = \pm 3.9 \text{ dB}$
Radiated emissions at frequencies above 1 GHz	$U_c = \pm 4.9 \text{ dB}$

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4. Test Facility

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

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

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

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This laboratory also meets the requirements of any additional program requirements in the Electrical field.

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.

VCCI Membership No.: 4112

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered in accordance with VCCI Council Rules.

VCCI Registration No. C-20098 for conducted emissions at AC main power ports

VCCI Registration No. T-20102 for conducted emissions at telecommunication ports

VCCI Registration No. R-20136 for radiated emissions below 1GHz

VCCI Registration No. G-20132 for radiated emissions above 1GHz

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5. Measurement of Conducted Emissions from the AC Mains Power Ports

5.1. Requirements

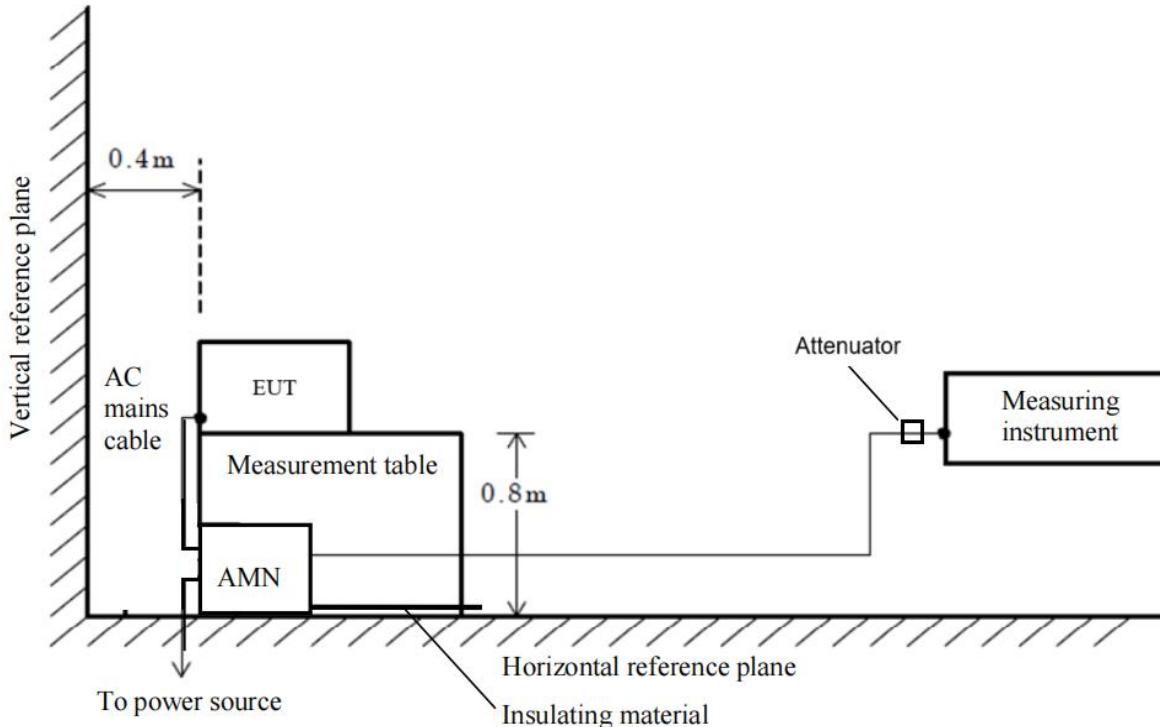
Requirements for conducted emissions, low voltage AC mains port

Network device	Detector type/ bandwidth	Frequency Range (MHz)	Limits dB(μV)	Measurement specifications
AMN	Quasi-peak/ 9kHz	0.15 to 0.5	66 to 56	Instrumentation: CISPR 16-1-1, Clauses 4, 5 and 7
		0.5 to 5	56	
		5 to 30	60	Networks: CISPR 16-1-2, Clause 4 Method: CISPR 16-2-1, Clause 7 Set-up: CISPR 16-2-1, Clause 7
	Average/ 9kHz	0.15 to 0.5	56 to 46	
		0.5 to 5	46	
		5 to 30	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 to 0.5MHz.

5.2. Block Diagram of Test Setup



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5.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07
AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2024-02-01	2026-01-31

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S001	ES-K1	R&S	For EMC Measurement, Version 1.71

5.4. Configuration of the EUT and method of measurement

- The EUT 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, the EUT was placed on the top surface of a measurement table, 0.8 m high from the horizontal reference plane, and was positioned at a distance of 0.4 m away from the vertical reference plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10 cm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per CISPR 16-2-1.
- All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-1.
- The EMI receiver measured the emission levels emanating from the EUT into the AC Mains through an Artificial Mains Network (AMN) and an attenuator used on the front end of the EMI receiver. Testing included measurements on all live and neutral lines.
- The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.
- Record at least six highest emissions relative to the limits at each frequency of interest unless the emission is 10 dB or greater below the limit.
- A conducted emission is calculated by the following equation:
 - Measurement Level (dB μ V) = Receiver reading (dB μ V) + Transd (dB)
 - Transd(dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin= Limit-Level

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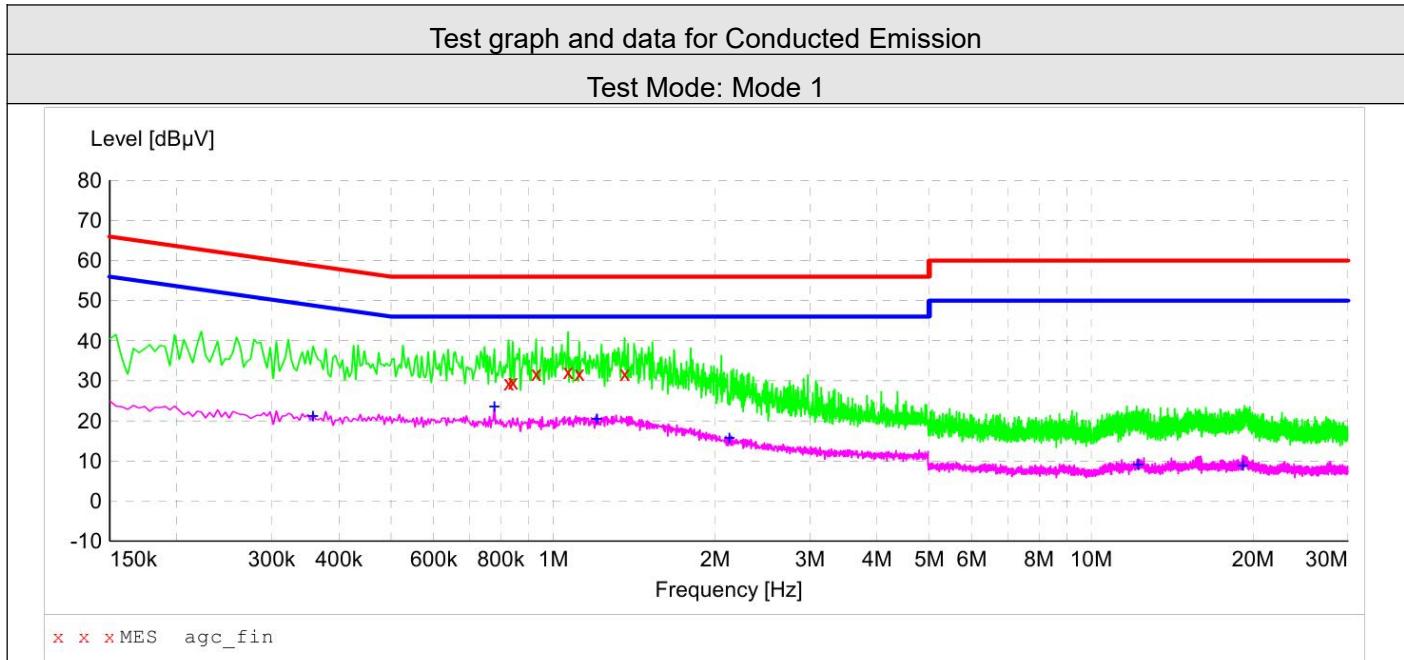
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5.5. Test Summary

Test Engineer	Carl Duan	Temperature	23.8°C
Test Date	2025-08-28	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	61.9 %
Verdict	Pass		



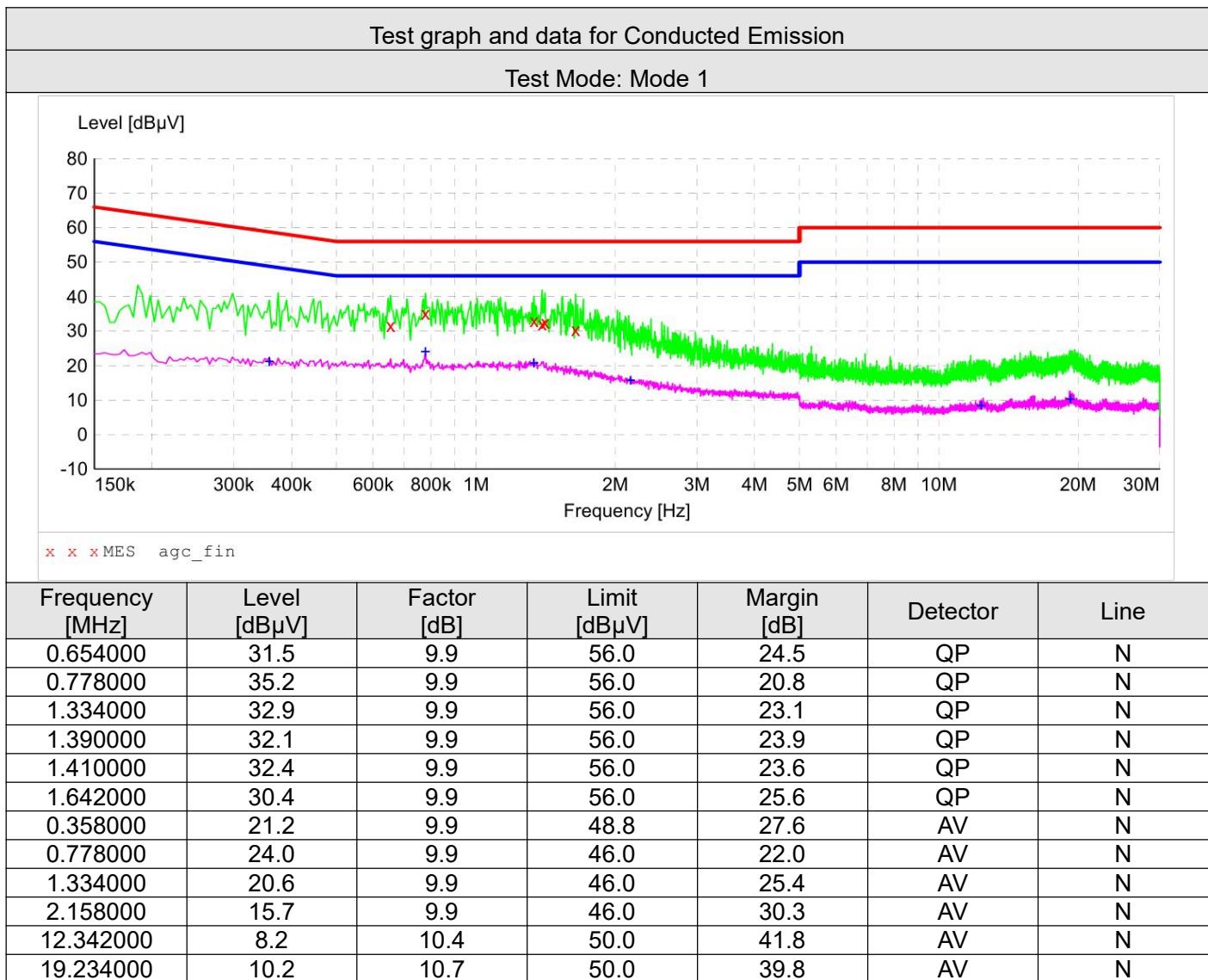
Frequency [MHz]	Level [dB μ V]	Factor [dB]	Limit [dB μ V]	Margin [dB]	Detector	Line
0.826000	29.5	9.9	56.0	26.5	QP	L1
0.842000	29.6	9.9	56.0	26.4	QP	L1
0.930000	31.7	9.9	56.0	24.3	QP	L1
1.066000	32.2	9.9	56.0	23.8	QP	L1
1.118000	31.9	9.9	56.0	24.1	QP	L1
1.358000	31.7	9.9	56.0	24.3	QP	L1
0.358000	21.0	9.9	48.8	27.8	AV	L1
0.778000	23.5	9.9	46.0	22.5	AV	L1
1.206000	20.4	9.9	46.0	25.6	AV	L1
2.126000	15.6	9.9	46.0	30.4	AV	L1
12.226000	8.9	10.4	50.0	41.1	AV	L1
19.142000	8.8	10.7	50.0	41.2	AV	L1

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6. Measurement of Radiated Emissions at Frequencies up to 1 GHz

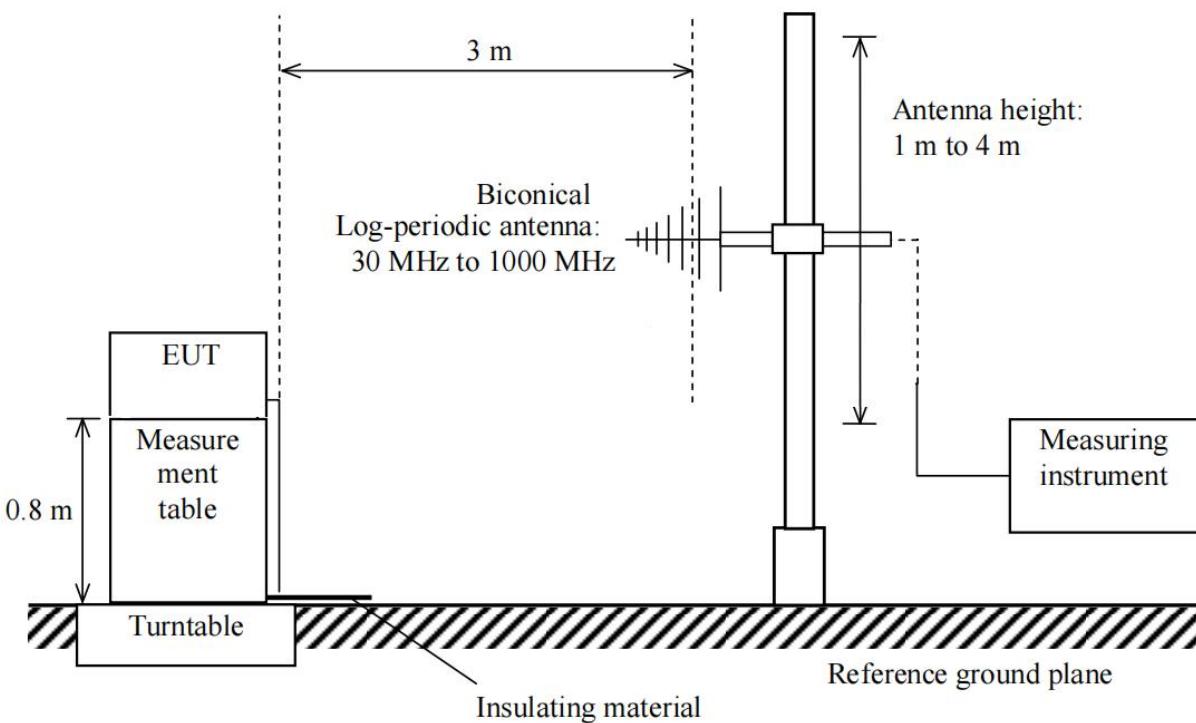
6.1. Requirements

Requirements for radiated emissions at frequencies up to 1 GHz at 3m distance

Test facility	Detector type/ bandwidth	Frequency Range (MHz)	Limits dB(µV/m)	Measurement specifications
SAC	Quasi-peak/ 120kHz	30 to 230	40	Instrumentation: CISPR 16-1-1, Clauses 4, 5 Antennas: CISPR 16-1-4, Clause 4.5 Test Site: CISPR 16-1-4, Clause 6 Method: CISPR 16-2-3, Clause 7.6
		230 to 1000	47	

Note:
1. The lower limit shall apply at the transition frequency.

6.2. Block Diagram of Test Setup



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6.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E046	Test Receiver	R&S	ESCI	100096	2025-01-14	2026-01-13
AGC-EM-E001	Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
AGC-EM-A138	Attenuator	East sheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S003	EZ-EMC	FARA	For EMC Measurement, Version RA-03A

6.4. Configuration of the EUT and method of measurement

- The EUT 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, the EUT was placed on the top surface of a measurement table, 0.8 m high from the horizontal reference plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10 cm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per CISPR 16-2-3.
- All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-3.
- The maximum receiving level of radiated emissions from the EUT was measured while the turntable was rotated from 0° to 360° and the antenna height was scanned between 1 m and 4 m. The cables were laid out to attain the maximum level of radiated emissions.
- The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.
- Record at least six highest emissions relative to the limits at each frequency of interest unless the emission is 10 dB or greater below the limit.
- A radiated emission is calculated by the following equation:
 - Measurement Level dB(µV/m) = Receiver reading dB(µV) + Factor(dB/m)
 - Factor(dB/m) = Antenna Factor(dB/m) + Cable Loss(dB)
 - Margin= Limit-Level

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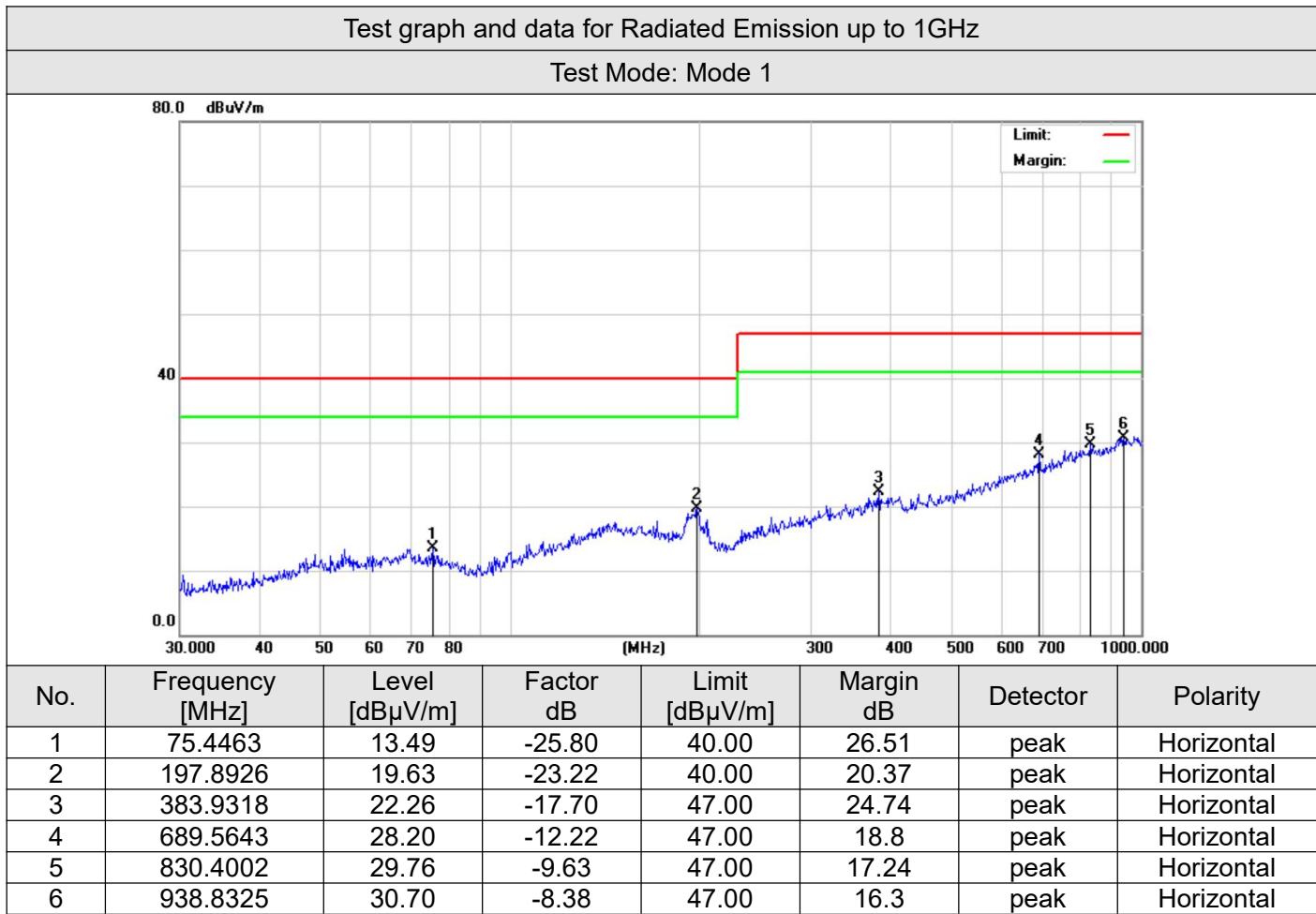
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6.5. Test Summary

Test Engineer	Alex Yang	Temperature	22.1°C
Test Date	2025-08-28	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	55.5 %
Verdict	Pass		

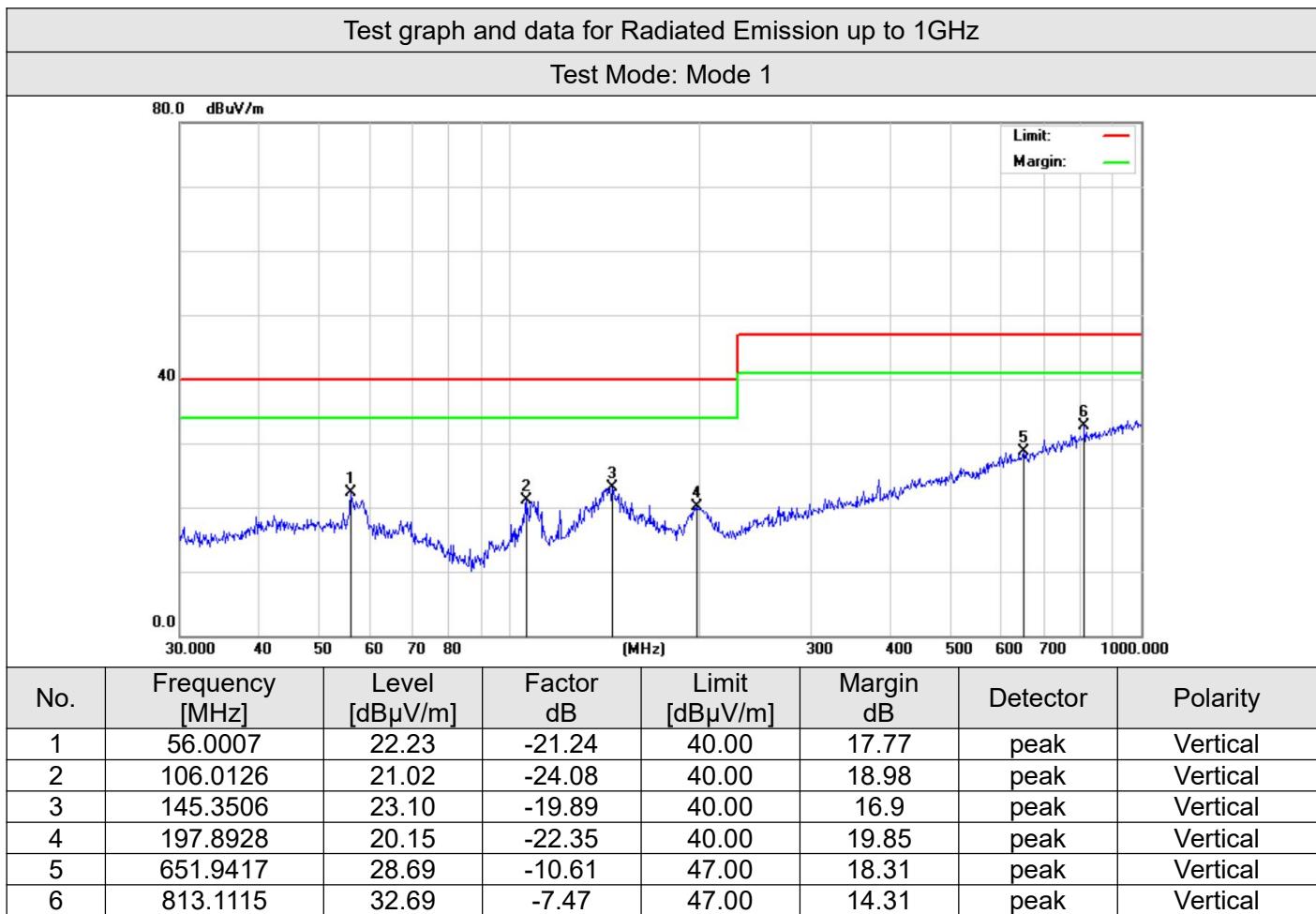


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7. Measurement of Radiated Emissions at Frequencies Above 1 GHz

7.1. Requirements

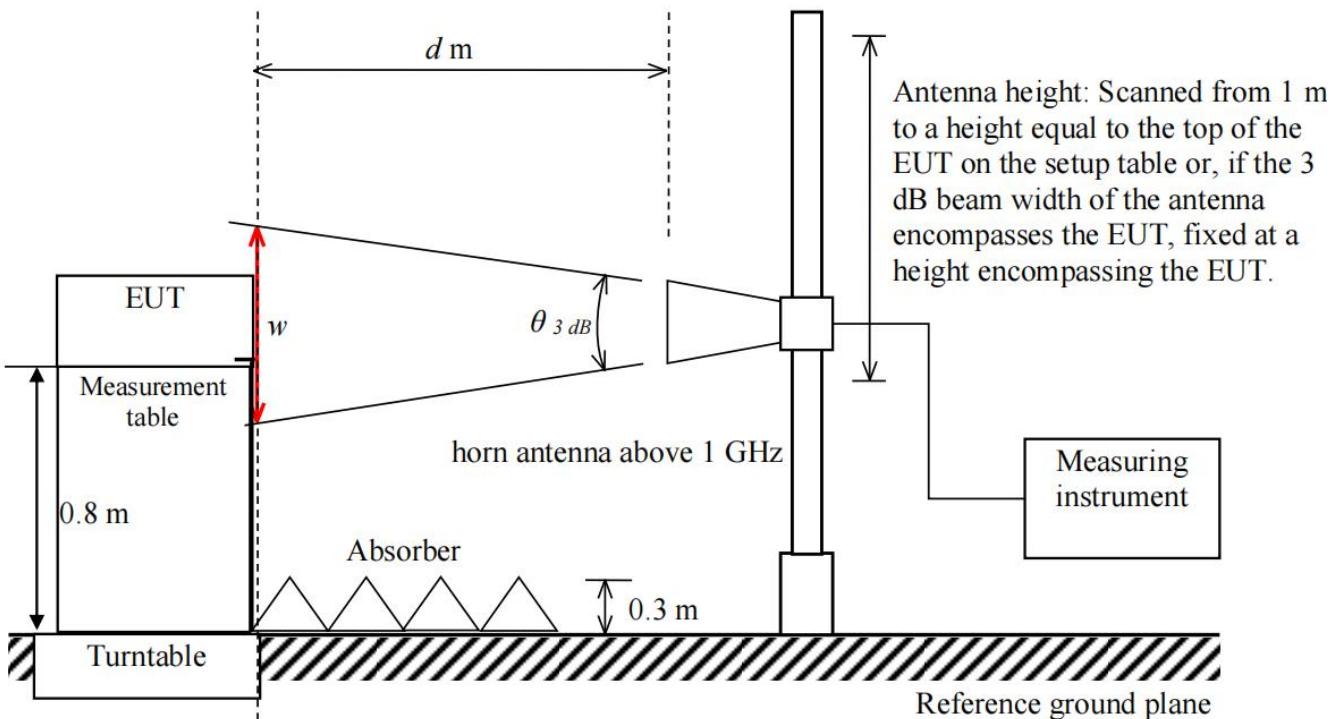
Requirements for radiated emissions at frequencies above 1 GHz at 3m distance

Test facility	Detector type/ bandwidth	Frequency Range (MHz)	Limits dB(μ V/m)	Measurement specifications
FSOATS	Peak/ 1MHz	1000 to 3000	70	Instrumentation: CISPR 16-1-1, Clauses 4, 6, 7 Antennas: CISPR 16-1-4, Clause 4.6
		3000 to 6000	74	
	Average/ 1MHz	1000 to 3000	50	Test Site: CISPR 16-1-4, Clause 7 Method: CISPR 16-2-3, Clause 7.6
		3000 to 6000	54	

Note:

- The lower limit shall apply at the transition frequency.

7.2. Block Diagram of Test Setup



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7.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E061	Signal Analyzer	Keysight	N9010A	MY53470504	2025-05-08	2026-05-07
AGC-EM-E102	Antenna	ETS	3117	00154520	2025-05-18	2026-05-17
AGC-EM-E146	Preamplifier	ETS	3117PA	00246148	2024-07-24	2026-07-23

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S004	TS+[JS32-RE]	Tonscend	For EMC Measurement, Version 4.0.0.0

7.4. Configuration of the EUT and method of measurement

- The EUT 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, the EUT was placed on the top surface of a measurement table, 0.8 m high from the horizontal reference plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10 cm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per CISPR 16-2-3.
- All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-3.
- The maximum receiving level of radiated emissions from the EUT was measured while the turntable was rotated from 0° to 360° and the antenna height scanned from 1 m to a height equal to the top of the EUT on the setup table or, if the 3 dB beam width of the antenna encompasses the EUT, fixed at a height encompassing the EUT. The cables were laid out to attain the maximum level of radiated emissions.
- The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.
- Record at least six highest emissions relative to the limits at each frequency of interest unless the emission is 10 dB or greater below the limit.
- A radiated emission is calculated by the following equation:
 - Measurement Level dB(µV/m) = Receiver reading dB(µV) + Factor(dB/m)
 - Factor(dB/m) = Antenna Factor(dB/m) + Cable Loss(dB) – Amplifier Gain(dB)
 - Margin= Limit-Level

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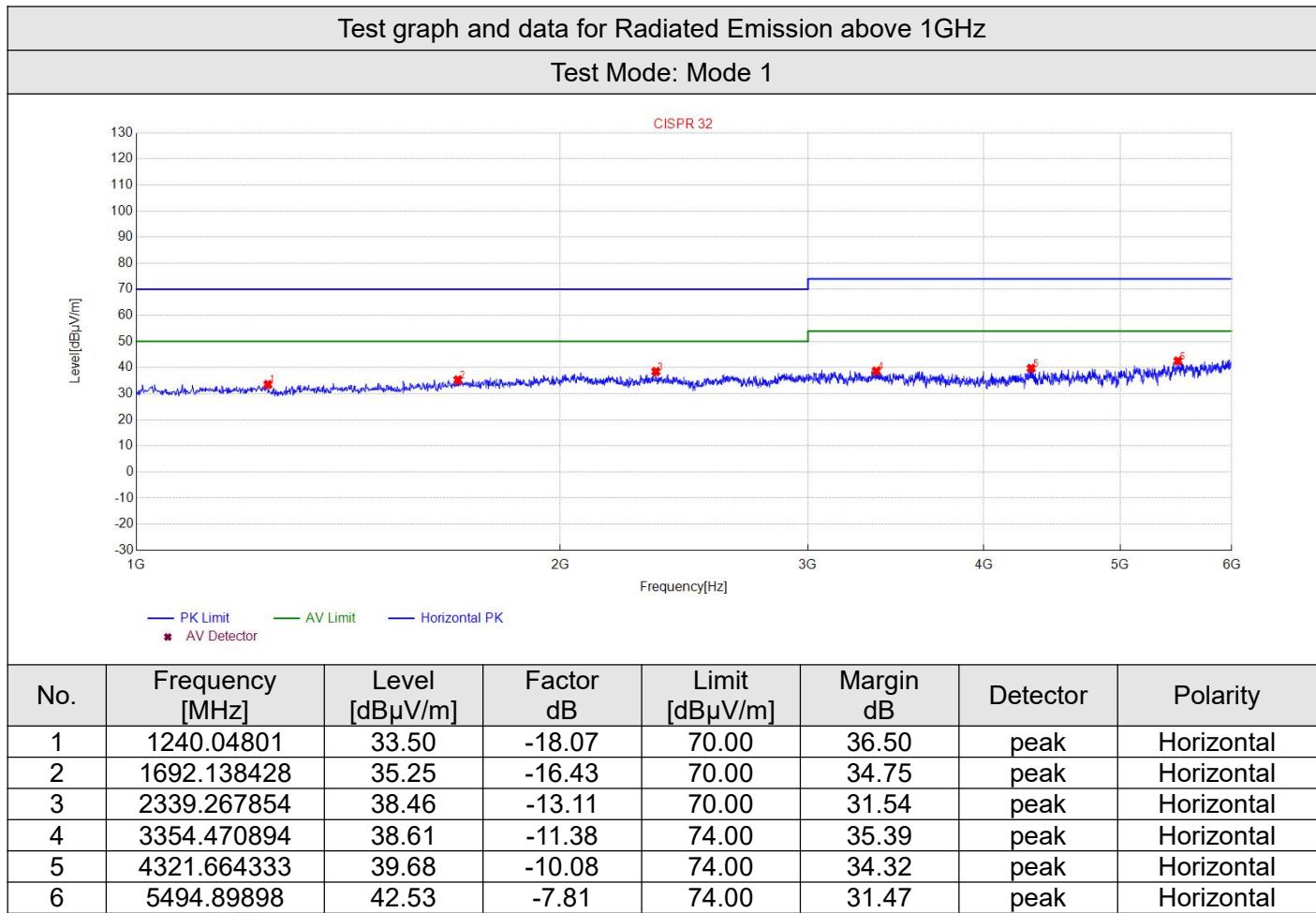
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7.5. Test Summary

Test Engineer	Alex Yang	Temperature	21.7°C
Test Date	2025-08-28	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	55.9 %
Verdict	Pass		

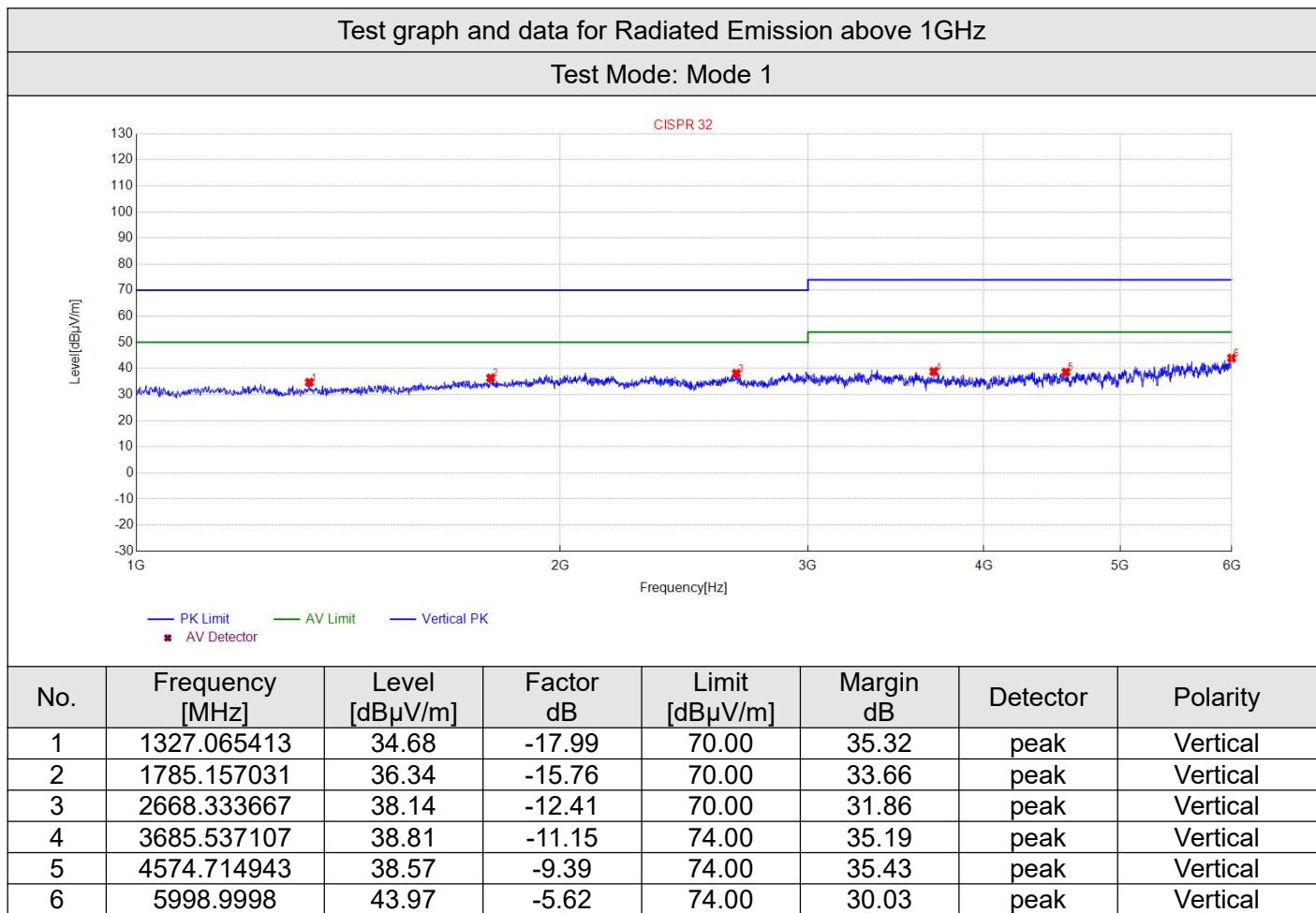


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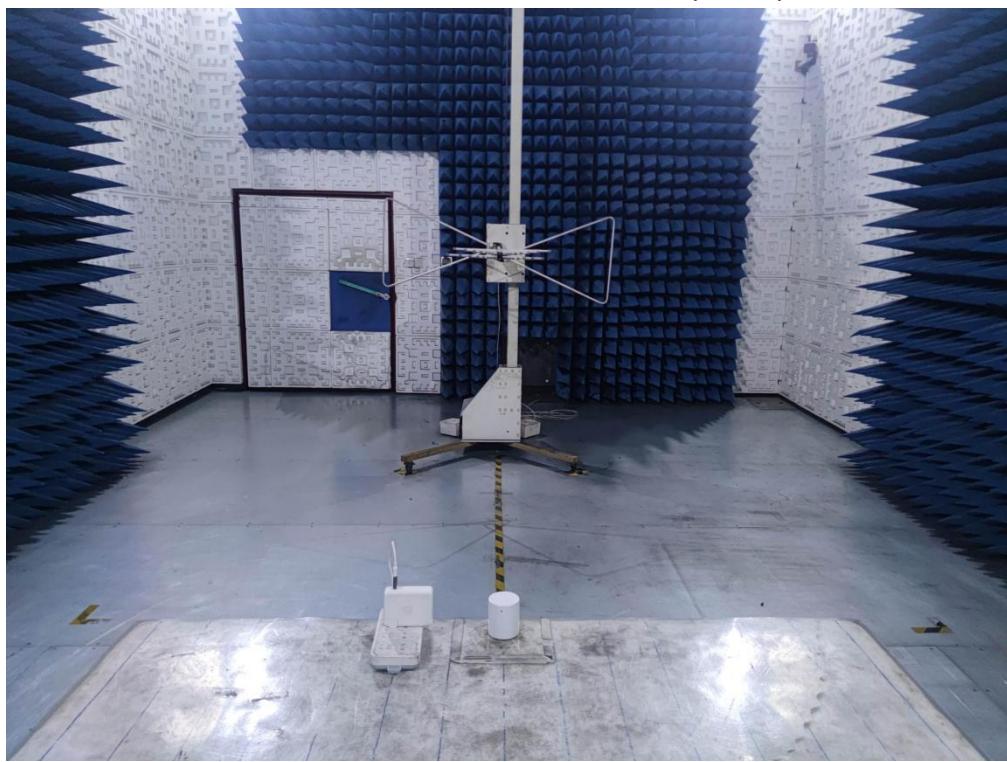
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8. Photographs of Test Setup



Conducted emissions from the AC mains power ports



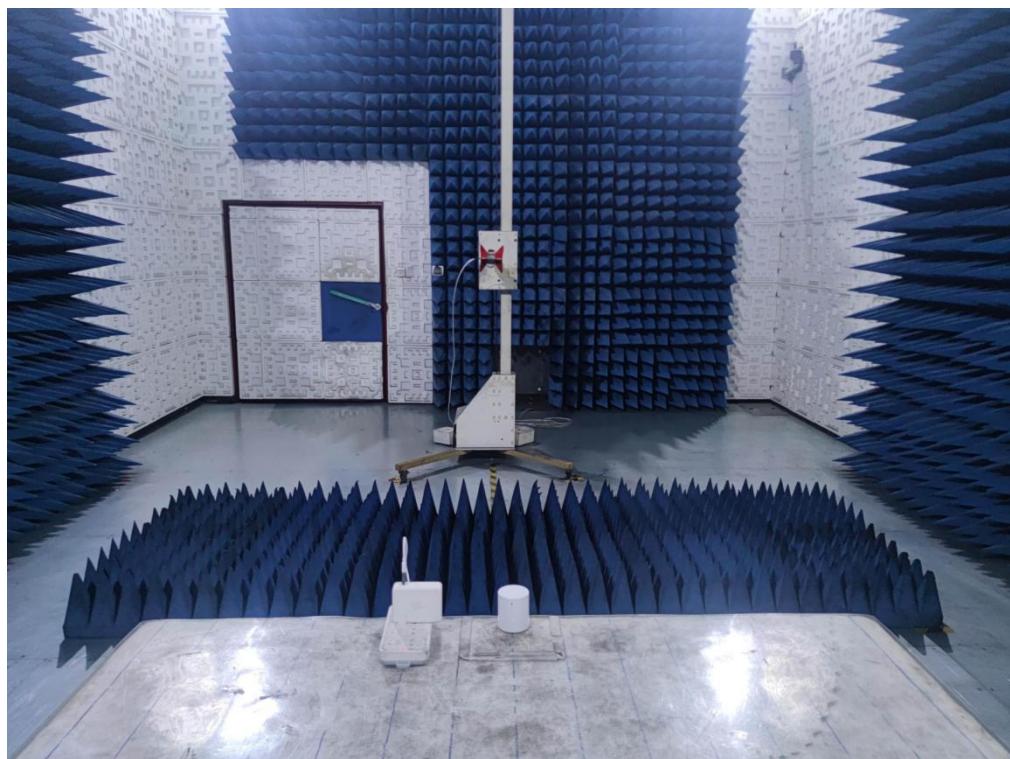
Radiated emissions at frequencies up to 1 GHz

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Radiated emissions at frequencies above 1 GHz

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9. Photographs of EUT

Refer to the Report No.: AGC16823250801AP01

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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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