

Prüfbericht-Nr.: <i>Test report no.:</i>	CN26V9OF 004	Auftrags-Nr.: <i>Order no.:</i>	27200463	Seite 1 von 15 Page 1 of 15
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2026-01-05	
Auftraggeber: <i>Client:</i>	YuShu Technology Co., Ltd. 306 Room, Building 1, 88 Dongliu Rd, XiXing Street, Binjiang District, Hangzhou, ZheJiang, China			
Prüfgegenstand: <i>Test item:</i>	Humanoid Robot			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	R1 AIR, R1, R1 EDU			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR Title 47 FCC Part 15, Subpart C, Section 15.249 RSS-210 Issue 11 June 2024 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-04-08	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample no:</i>	A004171855-001~003 A004260434-001~002			
Prüfzeitraum: <i>Testing period:</i>	2026-05-02 - 2026-05-12			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>	
Datum: <i>Date:</i>	2026-05-18	Ausstellungsdatum: <i>Issue date:</i>		2026-05-18
Signed by: Bell Hu		Signed by: Jonathan Li		
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / <i>Other:</i>	FCC ID: 2A5PE-YUSHU010 This report is for Sub-1GHz.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS

RESULT: Pass

5.1.3 20dB AND 99% BANDWIDTH

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Sub-1GHz

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Accreditation Designation No.: CN1260

ISED Wireless Device Testing Laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend 1)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
Wireless Connectivity Tester	R&S	CMW270	102505	2025-09-23	2026-09-22
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2025-09-23	2026-09-22
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2025-09-23	2026-09-22
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2025-09-23	2026-09-22
DC power supply	Keysight	E3642A	MY61276100	2025-09-23	2026-09-22
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2025-09-23	2026-09-22
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2025-09-23	2026-09-22
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27
Double-Ridged	ETS-	3117	00218717	2024-09-28	2026-09-27

Antenna (1-18 GHz)	LINDGREN				
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2026-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is a Humanoid Robot which supports Bluetooth, 2.4GHz Wi-Fi, 5GHz Wi-Fi, 2.4GHz SRD and Sub-1GHz wireless technologies.

This report is for Sub-1GHz operation.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	R1 Humanoid Robot
Type Designation:	R1 AIR, R1, R1 EDU* * All models are electrically identical in RF circuits, main boards and constructions. The only differences among them are the Orin board, and camera sensor, which have no impact on RF characteristics. Full evaluations on FCC 15B and ICES-003 were performed for all models respectively. As for RF, full test was performed for model R1 EDU and the worst-cases of radiated spurious emissions were re-checked for R1 AIR, and R1.
FCC ID:	2A5PE-YUSHU010
Operating Voltage:	33.12Vdc Battery Powered
Testing Voltage:	Fully charged battery
Technical Specification of Sub-1GHz	
Frequency Range:	920.5MHz to 923.5MHz
Operating Frequency:	920.6MHz to 923.4MHz
Type of Modulation:	FSK
Channel Separation:	0.2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-2.0 dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

This device is battery powered only, test for AC power-line conducted emissions is not applicable.

Table 4: Test Channel and Frequency

Technologies	Test Channels (MHz)
Sub-1GHz	L/M/H: 920.6, 922, 923.4

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Sub-1GHz transmitting mode

- 1) Low Channel
- 2) Middle Channel
- 3) High Channel

B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - FCC/IC Label and Location Info |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on models in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Remark
Laptop	Lenovo	T480	S/N: PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

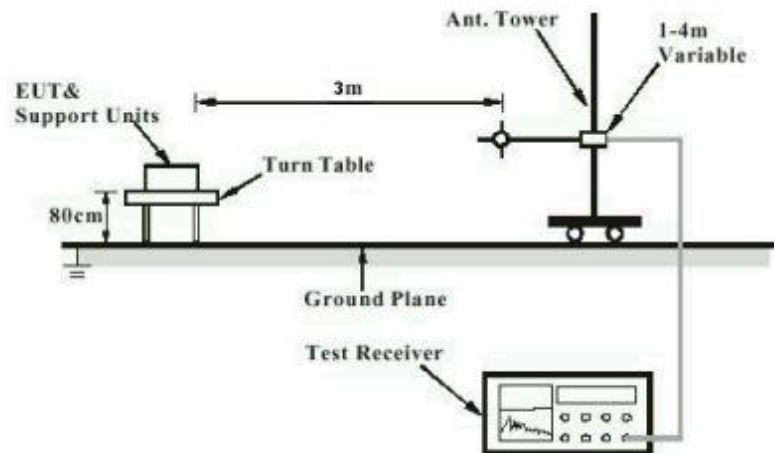


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

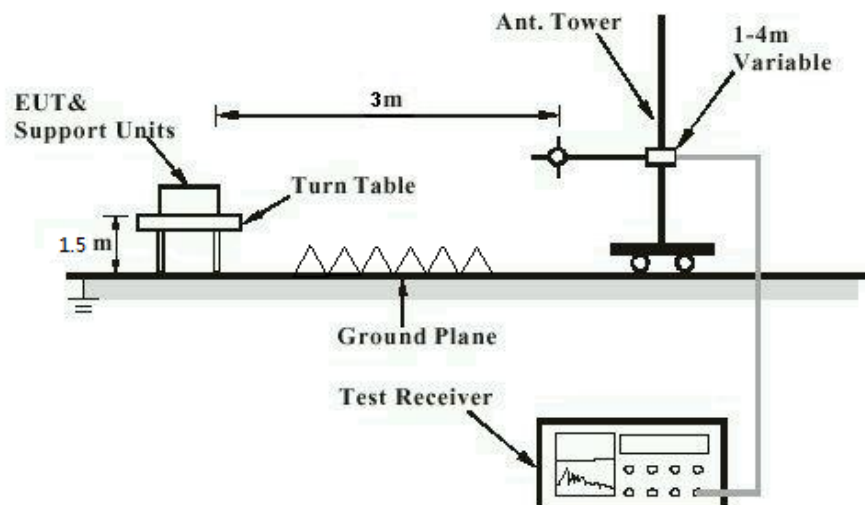
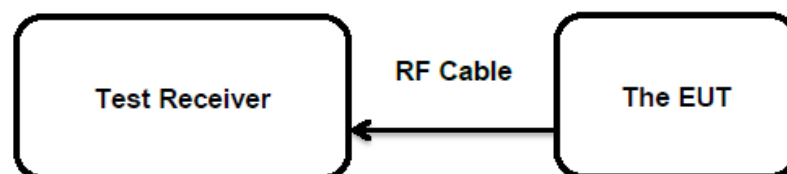


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203
RSS-Gen Section 6.8

According to the manufacturer declared, the EUT has Integral Antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Field Strength of Fundamental and Harmonics

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.249(a) (d) (e) RSS-210 Section B.10
Basic standard	: ANSI C63.10: 2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: FCC Part 15.249(a) (d) (e) & 15.209(a) RSS-210 Section B.10 (a) & (b) RSS-Gen Section 8.9
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-05-02 to 2026-05-12
Input voltage	: Fully charged battery
Operation mode	: A
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst-case spurious emissions configuration of each mode was reported.

It verifies that all the emissions radiated outside of the specified frequency bands are less than the general radiated emission limits in Part 15.209, thus the 50 dB down is not required.

For the measurement records, refer to appendix A.

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5.1.3 20dB and 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.215 RSS-Gen Section 6.7
Basic standard	: ANSI C63.10: 2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: Within assigned band
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-12
Input voltage	: Fully charged battery
Operation mode	: A
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix A: Test Results

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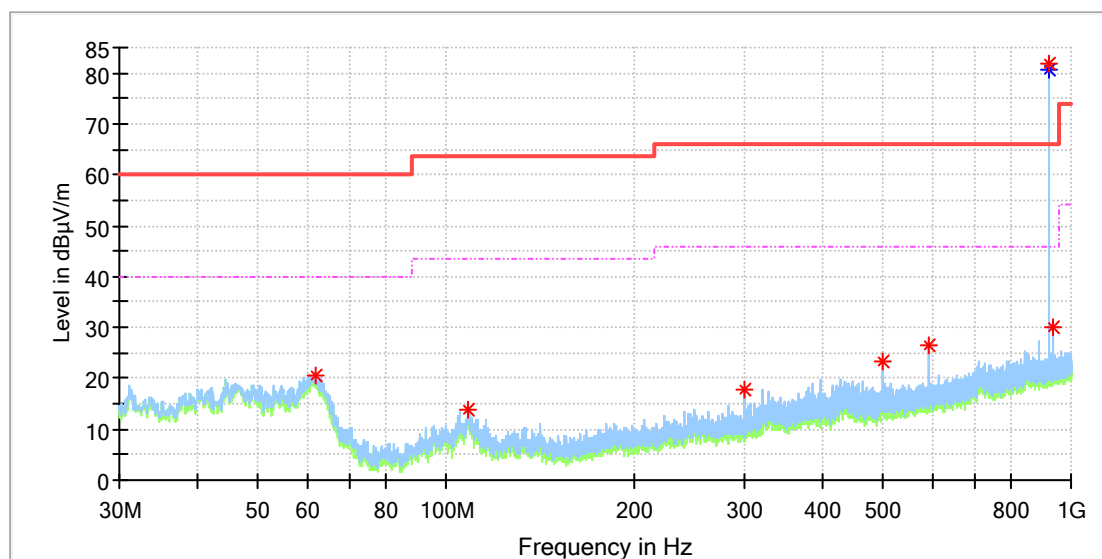
Appendix A.1: Test Results of Field Strength of Fundamental & Harmonics

Note: The testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 10GHz to 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 10GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	Humanoid Robot
Model:	R1 EDU
Test Mode:	920.6MHz
Order No/Sample No:	27200463/A004260434-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

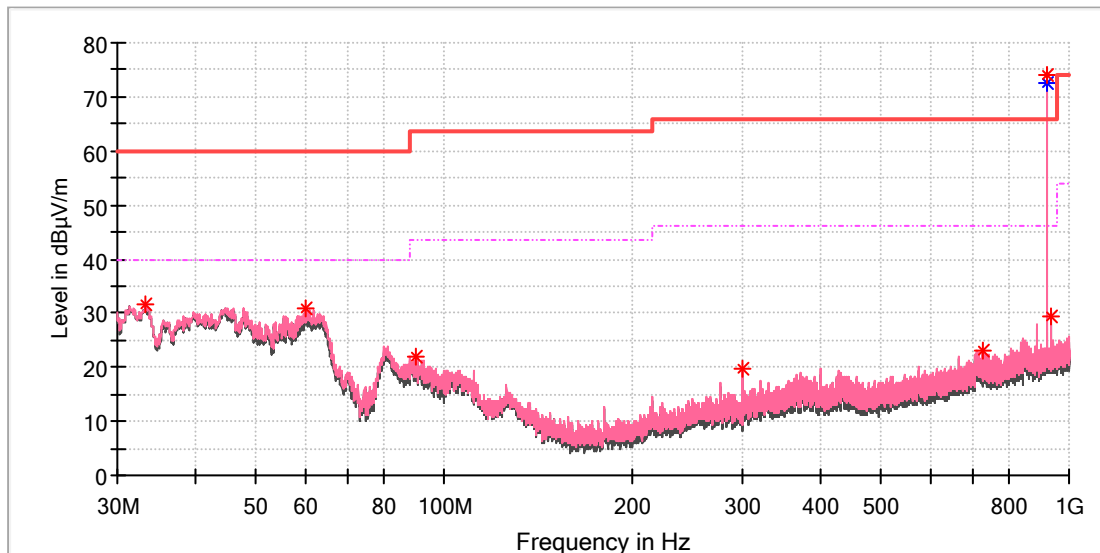
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
61.686667	20.45	---	40.00	19.55	100.0	H	296.0	-19.5
108.785556	13.81	---	43.50	29.69	100.0	H	123.0	-19.1
299.983333	17.71	---	46.00	28.29	100.0	H	73.0	-16.3
499.965000	23.15	---	46.00	22.85	100.0	H	59.0	-11.9
594.001111	26.37	---	46.00	19.63	100.0	H	7.0	-9.8
920.621667	---	80.59	94.00	13.41	100.0	H	274.0	-4.6
920.621667	81.75	---	114.00	32.25	100.0	H	274.0	-4.6
938.405000	29.95	---	46.00	16.05	100.0	H	32.0	-4.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Humanoid Robot
Model: R1 EDU
Test Mode: 920.6MHz
Order No/Sample No: 27200463/A004260434-001
Test Voltage: Battery
Remark: Temp 23 Humi:54%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

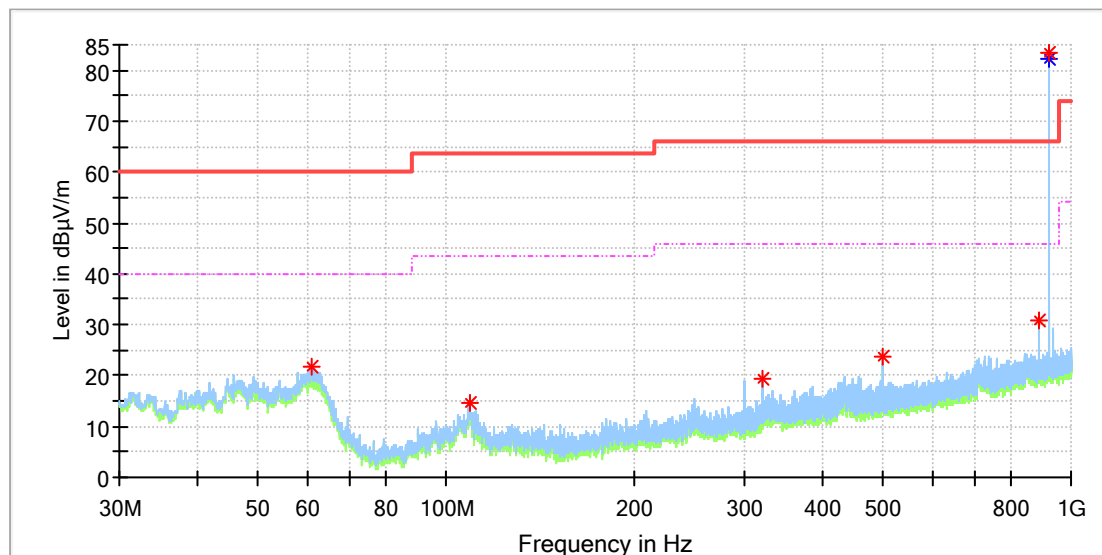
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.287222	31.61	---	40.00	8.39	100.0	V	263.0	-22.5
59.854444	30.98	---	40.00	9.02	100.0	V	0.0	-19.1
90.409444	21.96	---	43.50	21.54	100.0	V	339.0	-21.0
299.983333	19.70	---	46.00	26.30	100.0	V	161.0	-16.3
729.100556	23.22	---	46.00	22.78	100.0	V	0.0	-7.4
920.621667	---	72.62	94.00	21.38	100.0	V	313.0	-4.6
920.621667	73.92	---	114.00	40.08	100.0	V	313.0	-4.6
938.405000	29.54	---	46.00	16.46	100.0	V	235.0	-4.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Humanoid Robot
Model: R1 EDU
Test Mode: 922MHz
Order No/Sample No: 27200463/A004260434-001
Test Voltage: Battery
Remark: Temp 23 Humi:54%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

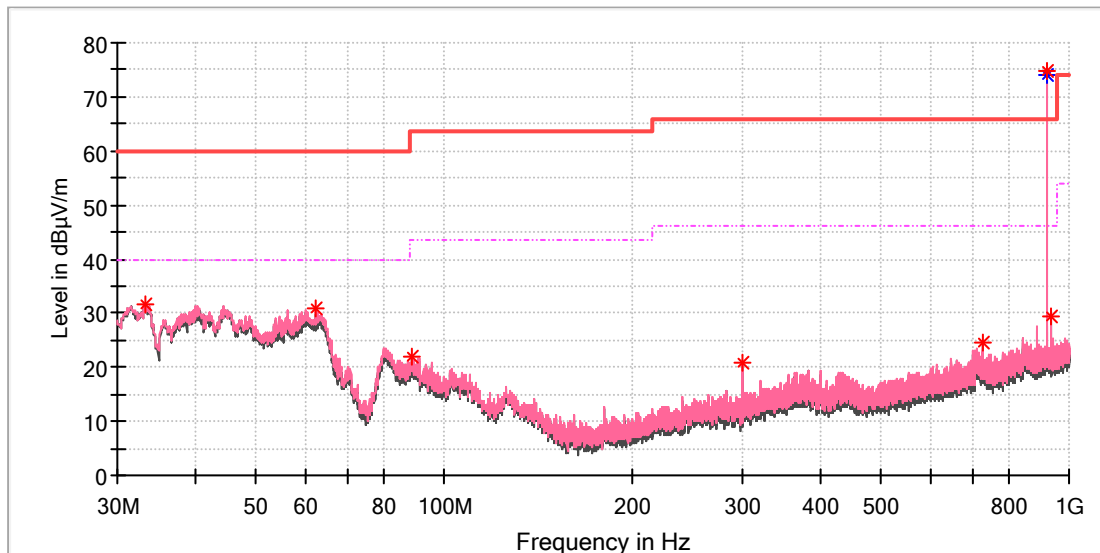
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
60.878333	21.74	---	40.00	18.26	100.0	H	277.0	-19.3
108.839444	14.79	---	43.50	28.71	100.0	H	111.0	-19.1
319.976111	19.33	---	46.00	26.67	100.0	H	190.0	-15.7
500.018889	23.78	---	46.00	22.22	100.0	H	18.0	-11.9
890.928889	31.01	---	46.00	14.99	100.0	H	288.0	-4.9
922.022778	83.26	---	114.00	30.71	100.0	H	237.0	-4.6
922.022778	---	82.09	94.00	11.91	100.0	H	237.0	-4.6

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Humanoid Robot
Model: R1 EDU
Test Mode: 922MHz
Order No/Sample No: 27200463/A004260434-001
Test Voltage: Battery
Remark: Temp 23 Humi:54%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

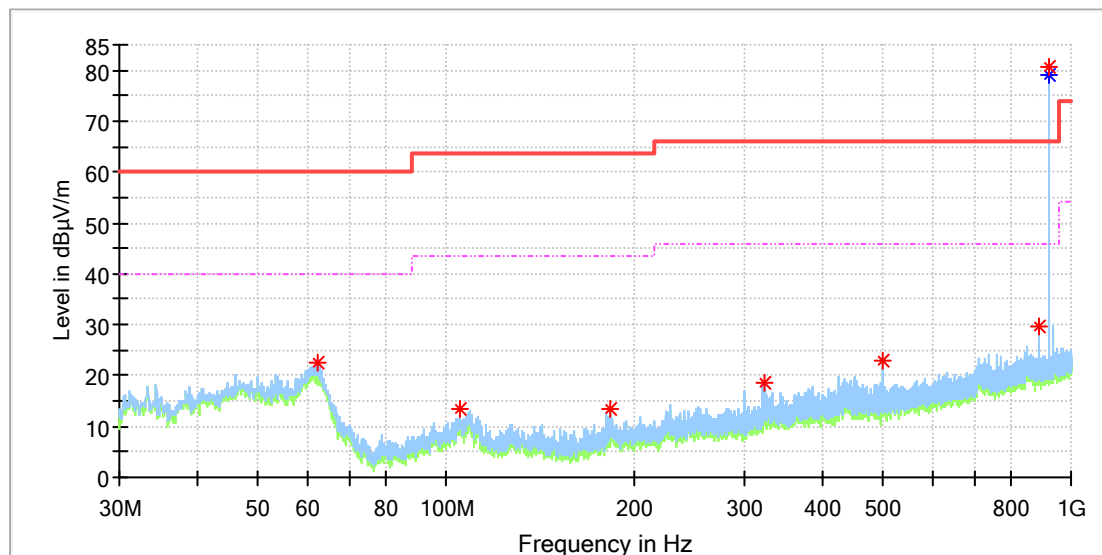
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.179444	31.80	---	40.00	8.20	100.0	V	20.0	-22.5
62.279444	30.86	---	40.00	9.14	100.0	V	259.0	-19.6
89.008333	22.12	---	43.50	21.38	100.0	V	310.0	-21.4
299.983333	20.84	---	46.00	25.16	100.0	V	163.0	-16.3
728.507778	24.69	---	46.00	21.31	100.0	V	358.0	-7.4
922.022778	---	74.08	94.00	19.92	100.0	V	100.0	-4.6
922.022778	74.93	---	114.00	39.07	100.0	V	100.0	-4.6
938.405000	29.30	---	46.00	16.70	100.0	V	116.0	-4.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Humanoid Robot
Model: R1 EDU
Test Mode: 923.4MHz
Order No/Sample No: 27200463/A004260434-001
Test Voltage: Battery
Remark: Temp 23 Humi:54%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

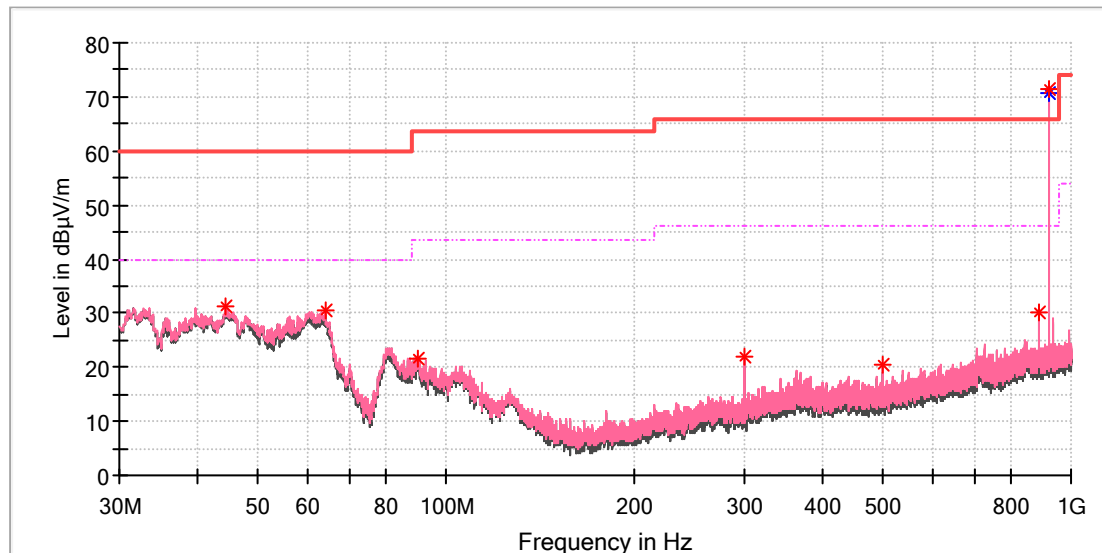
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
62.279444	22.67	---	40.00	17.33	100.0	H	317.0	-19.6
105.013333	13.61	---	43.50	29.89	100.0	H	74.0	-18.9
182.505556	13.28	---	43.50	30.22	100.0	H	85.0	-20.3
324.395000	18.47	---	46.00	27.53	100.0	H	41.0	-15.5
500.018889	22.80	---	46.00	23.20	100.0	H	22.0	-11.9
890.982778	29.60	---	46.00	16.40	100.0	H	354.0	-4.9
923.423889	---	79.17	94.00	14.83	100.0	H	179.0	-4.6
923.423889	80.68	---	114.00	33.32	100.0	H	179.0	-4.6

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Humanoid Robot
Model: R1 EDU
Test Mode: 923.4MHz
Order No/Sample No: 27200463/A004260434-001
Test Voltage: Battery
Remark: Temp 23 Humi:54%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.334444	31.31	---	40.00	8.69	100.0	V	142.0	-19.1
64.003889	30.68	---	40.00	9.32	100.0	V	48.0	-20.0
90.409444	21.65	---	43.50	21.85	100.0	V	226.0	-21.0
299.983333	21.94	---	46.00	24.06	100.0	V	228.0	-16.3
499.965000	20.52	---	46.00	25.48	100.0	V	237.0	-11.9
890.982778	30.00	---	46.00	16.00	100.0	V	331.0	-4.9
923.423889	---	70.83	94.00	23.17	100.0	V	119.0	-4.6
923.423889	71.37	---	114.00	42.63	100.0	V	119.0	-4.6

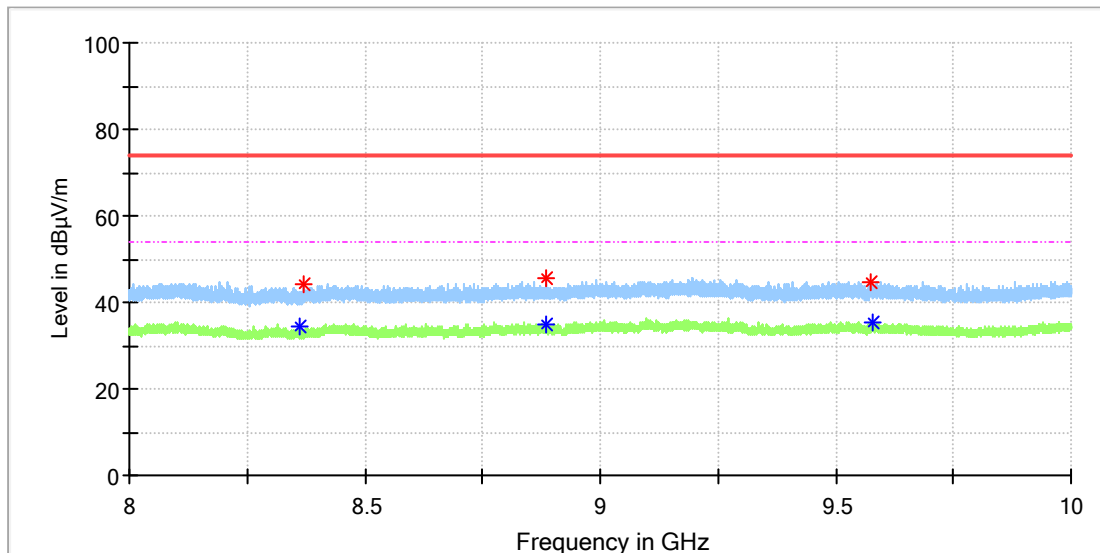
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Information

EUT Name:	Humanoid Robot
Model:	R1 EDU
Test Mode:	920.6MHz
Order No/Sample No:	27200463/A004260434-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

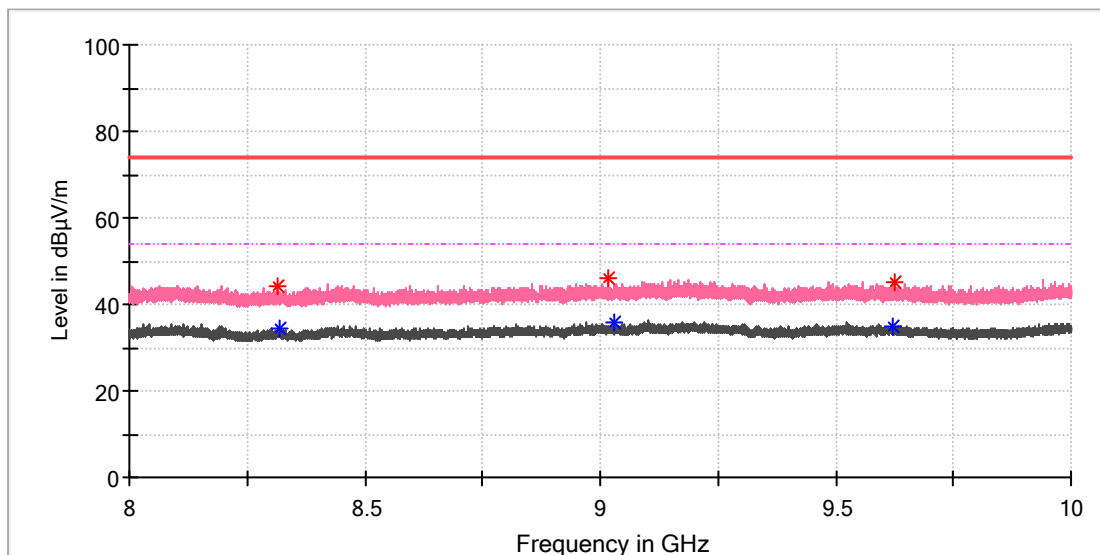
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
8362.700000	---	34.44	54.00	19.56	150.0	H	81.0	8.9
8371.900000	44.36	---	74.00	29.64	150.0	H	168.0	9.0
8884.600000	45.46	---	74.00	28.54	150.0	H	59.0	9.8
8886.800000	---	34.86	54.00	19.14	150.0	H	43.0	9.8
9572.800000	44.55	---	74.00	29.45	150.0	H	216.0	10.3
9580.000000	---	35.12	54.00	18.88	150.0	H	246.0	10.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Humanoid Robot
Model:	R1 EDU
Test Mode:	920.6MHz
Order No/Sample No:	27200463/A004260434-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
8314.000000	44.41	---	74.00	29.59	150.0	V	157.0	8.8
8318.200000	---	34.58	54.00	19.42	150.0	V	339.0	8.8
9017.700000	45.99	---	74.00	28.01	150.0	V	36.0	9.5
9029.900000	---	35.72	54.00	18.28	150.0	V	94.0	9.6
9620.400000	---	34.88	54.00	19.12	150.0	V	0.0	10.4
9625.700000	44.92	---	74.00	29.08	150.0	V	101.0	10.4

Final_Result

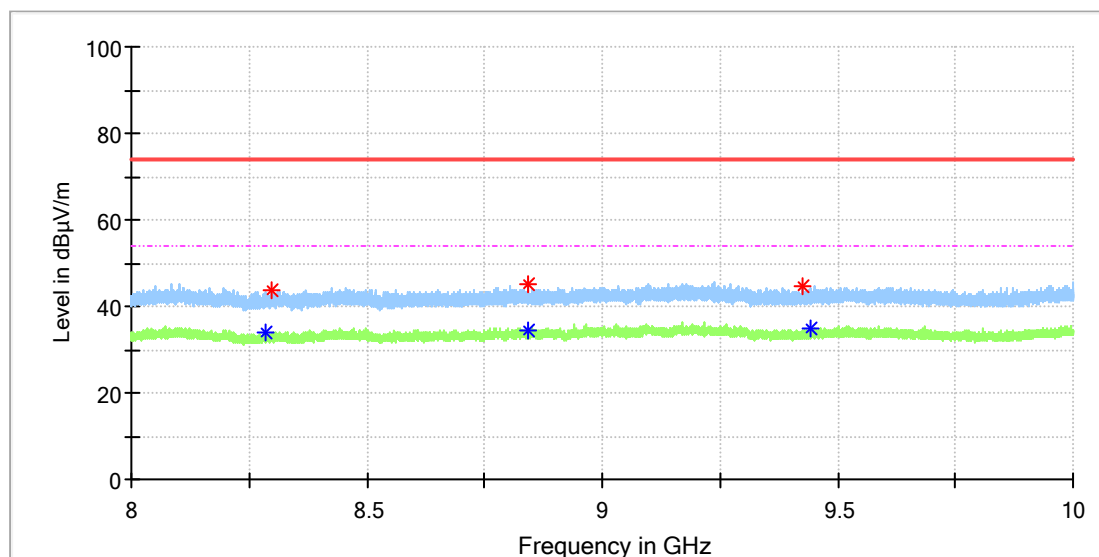
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Information

EUT Information

EUT Name:	Humanoid Robot
Model:	R1 EDU
Test Mode:	922MHz
Order No/Sample No:	27200463/A004260434-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

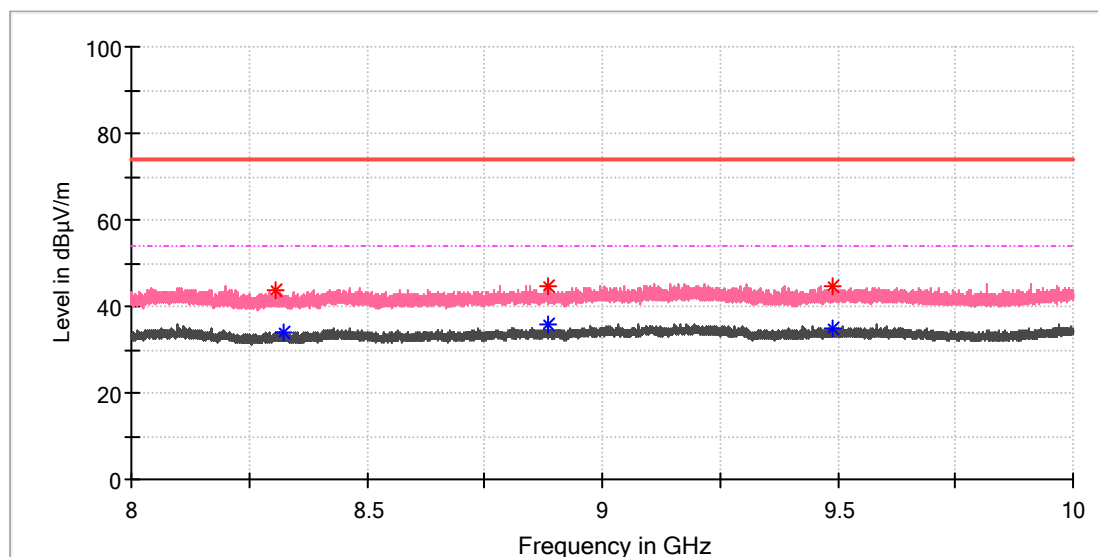
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8285.400000	---	33.91	54.00	20.09	150.0	H	78.0	8.7
8296.400000	43.74	---	74.00	30.26	150.0	H	0.0	8.7
8841.100000	---	34.64	54.00	19.36	150.0	H	256.0	9.9
8841.900000	44.91	---	74.00	29.09	150.0	H	263.0	9.9
9427.400000	44.64	---	74.00	29.36	150.0	H	6.0	9.6
9440.800000	---	34.74	54.00	19.26	150.0	H	299.0	9.7

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Humanoid Robot
Model:	R1 EDU
Test Mode:	922MHz
Order No/Sample No:	27200463/A004260434-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

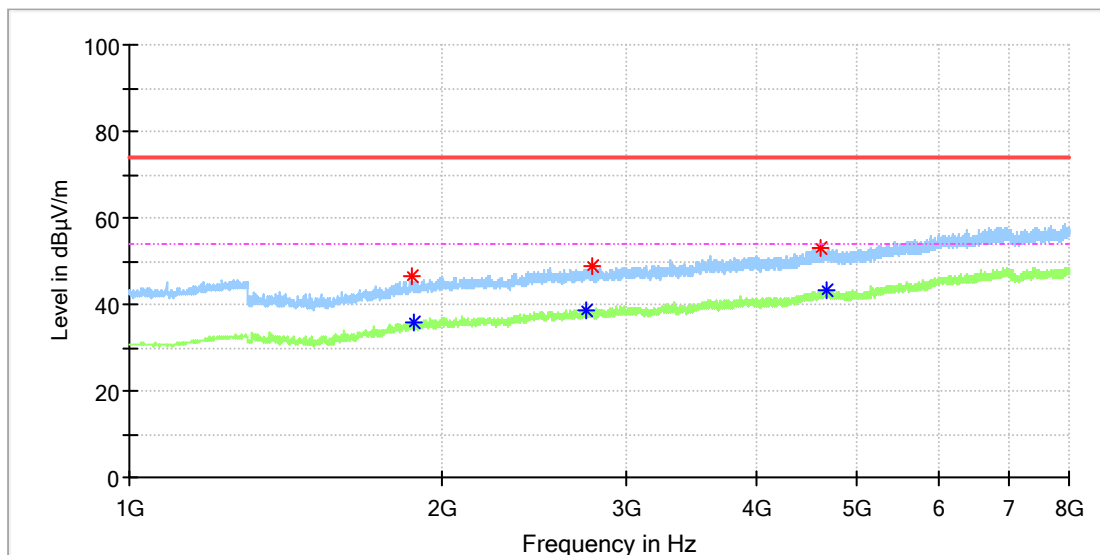
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8308.200000	43.87	---	74.00	30.13	150.0	V	184.0	8.8
8321.500000	---	34.09	54.00	19.91	150.0	V	25.0	8.8
8885.200000	---	35.73	54.00	18.27	150.0	V	77.0	9.8
8887.100000	44.77	---	74.00	29.23	150.0	V	346.0	9.8
9487.500000	44.82	---	74.00	29.18	150.0	V	119.0	9.9
9490.100000	---	34.99	54.00	19.01	150.0	V	346.0	9.9

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Humanoid Robot
Model:	R1 EDU
Test Mode:	923.4MHz
Order No/Sample No:	27200463/A004260434-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
1867.266667	46.34	---	74.00	27.66	150.0	H	129.0	6.7
1875.083333	---	35.91	54.00	18.09	150.0	H	121.0	6.8
2749.991667	---	38.61	54.00	15.39	150.0	H	101.0	9.3
2782.933333	48.89	---	74.00	25.11	150.0	H	32.0	9.4
4620.408333	52.90	---	74.00	21.10	150.0	H	74.0	13.5
4675.125000	---	43.40	54.00	10.60	150.0	H	264.0	13.5

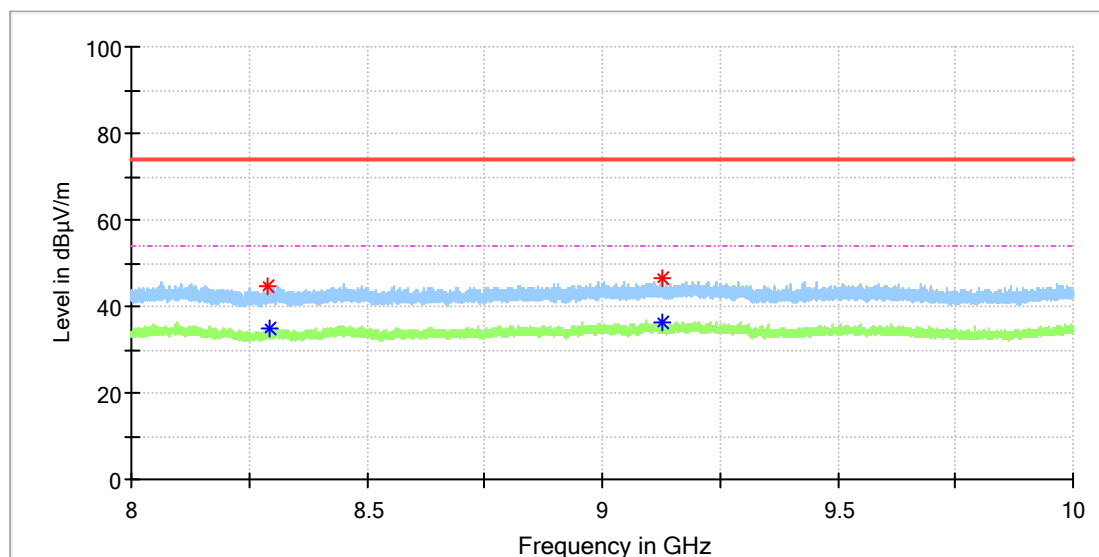
Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Humanoid Robot
Model:	R1 EDU
Test Mode:	923.4MHz
Order No/Sample No:	27200463/A004260434-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8290.700000	44.44	---	74.00	29.56	150.0	H	338.0	8.7
8291.900000	---	34.71	54.00	19.29	150.0	H	216.0	8.7
9126.800000	---	36.45	54.00	17.55	150.0	H	329.0	10.3
9128.000000	46.64	---	74.00	27.36	150.0	H	329.0	10.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

Appendix A.2: Test Results of 20dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20DB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SUB-1G	Ant1	920.6	0.281	920.462	920.743	---	Pass
SUB-1G	Ant1	922	0.290	921.862	922.152	---	Pass
SUB-1G	Ant1	923.4	0.280	923.262	923.542	---	Pass

Test Graphs



SUB-1G-Ant1-920.6



SUB-1G-Ant1-922



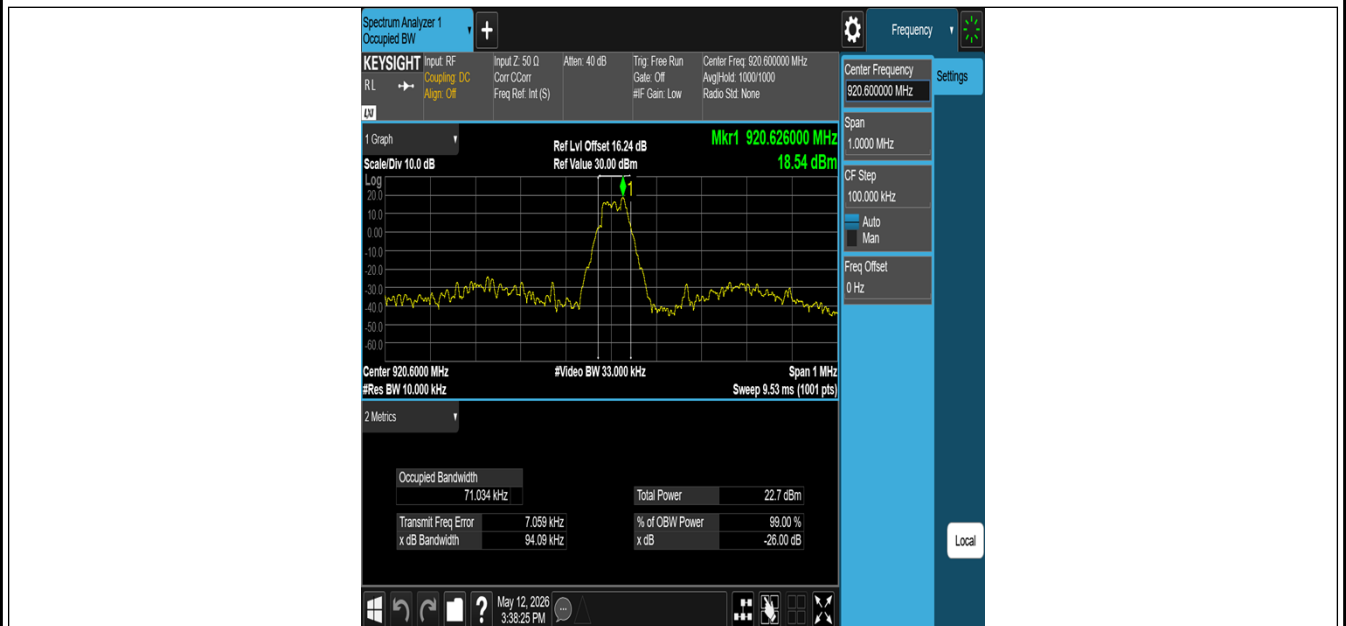
SUB-1G-Ant1-923.4

Appendix A.3: Test Results of 99% Bandwidth

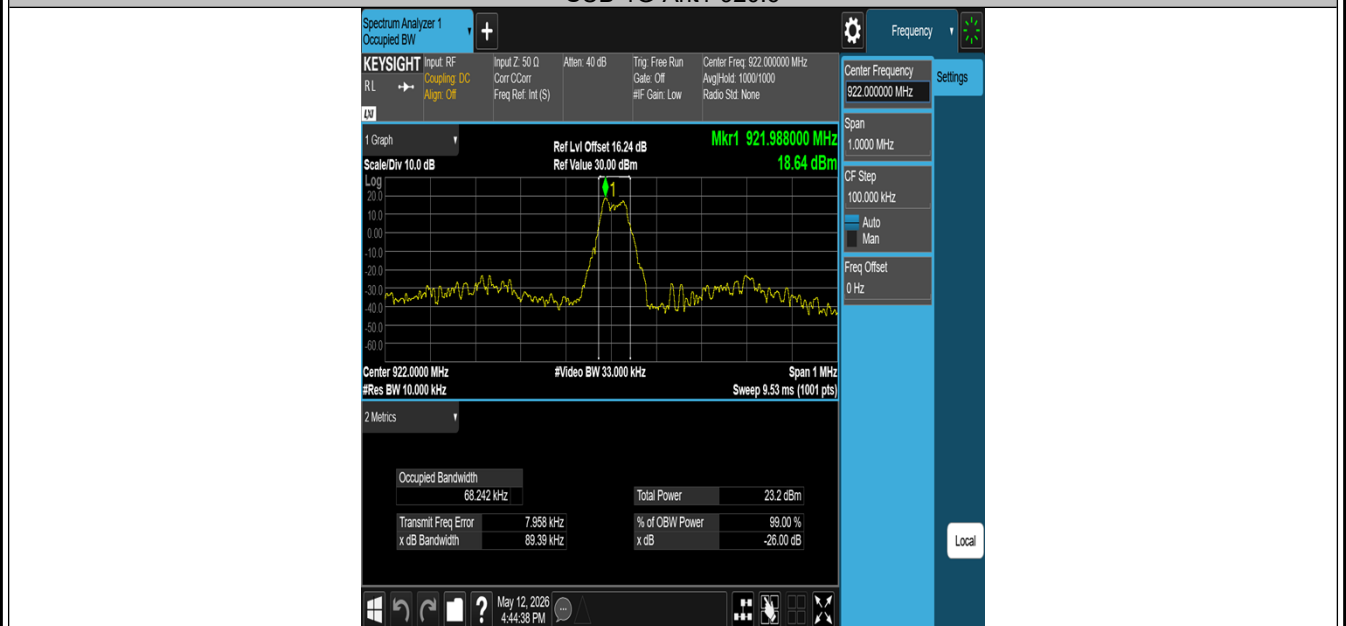
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SUB-1G	Ant1	920.6	0.07103	920.5715	920.6426	---	Pass
SUB-1G	Ant1	922	0.06824	921.9738	922.0421	---	Pass
SUB-1G	Ant1	923.4	0.07025	923.3718	923.4421	---	Pass

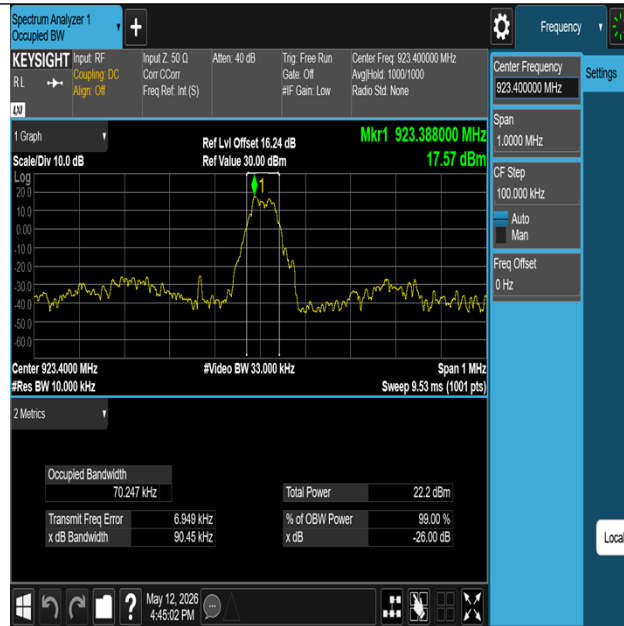
Test Graphs



SUB-1G-Ant1-920.6



SUB-1G-Ant1-922



SUB-1G-Ant1-923.4