

Prüfbericht-Nr.: Test report no.:	CN256J3E 004	Auftrags-Nr.: Order no.:	168541455	Seite 1 von 14 Page 1 of 14
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-02-19	
Auftraggeber: Client:	Shanghai Zhiyuan New Innovation Technology Co., Ltd 8/F, Building 29, No.2555 Xiupu Road, Pudong New Area, 200120 Shanghai P.R. China			
Prüfgegenstand: Test item:	General-Purpose Robot			
Bezeichnung / Typ-Nr.: Identification / Type no.:	A2			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR47 FCC Part 22 CFR47 FCC Part 24 CFR47 FCC Part 27 CFR47 FCC Part 90 CFR47 FCC Part 96			
Wareneingangsdatum: Date of sample receipt:	2025-04-30	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no:	A003986907-001-007 A003997948-001-002			
Prüfzeitraum: Testing period:	2025-05-29 - 2025-06-15			
Ort der Prüfung: Place of testing:	Refer to section 2.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	X <u>Bell Hu</u>		genehmigt von: authorized by:	X <u>Jonathan Li</u>
Datum: Date: 2025-06-17	Signed by: Bell Hu		Ausstellungsdatum: Issue date: 2025-06-17	Signed by: Jonathan Li
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	*This product contains certificated LTE single module, details listed as clause 3.1. **Assessment performed in this report is for the certificated module accomodated into the host device (General-Purpose Robot , Model: A2).			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* 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>				

Prüfbericht-Nr.: CN256J3E 004
Test report no.:

Seite 2 von 14
Page 2 of 14

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>

Prüfbericht - Nr.: CN256J3E 004
Test report no.:

Seite 3 von 14
Page 3 of 14

Contents

1	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS	4
2	TEST SITES	5
2.1	TEST FACILITIES	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	6
2.3	TRACEABILITY	7
2.4	CALIBRATION	7
2.5	MEASUREMENT UNCERTAINTY.....	7
2.6	LOCATION OF ORIGINAL DATA.....	7
2.7	STATUS OF FACILITY USED FOR TESTING.....	7
3	GENERAL PRODUCT INFORMATION	8
3.1	PRODUCT FUNCTION AND INTENDED USE.....	8
3.2	RATINGS AND SYSTEM DETAILS	9
3.3	INDEPENDENT OPERATION MODES	10
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	10
3.5	SUBMITTED DOCUMENTS.....	10
4	TEST SET-UP AND OPERATION MODES	11
4.1	PRINCIPLE OF CONFIGURATION SELECTION	11
4.2	TEST OPERATION AND TEST SOFTWARE.....	11
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	11
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	11
4.5	TEST SETUP DIAGRAM	12
5	TEST RESULTS	13
5.1	RADIATED SPURIOUS EMISSIONS.....	13
6	PHOTOGRAPHS OF THE TEST SET-UP	14
7	LIST OF TABLES.....	14

Prüfbericht - Nr.: CN256J3E 004
Test report no.:

Seite 4 von 14
Page 4 of 14

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 for Test data
Appendix B for Test setup.

Prüfbericht - Nr.: CN256J3E 004
Test report no.:

Seite 5 von 14
Page 5 of 14

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

A2LA Cert. No.: 5162.01

Prüfbericht - Nr.: CN256J3E 004
Test report no.:

Seite 6 von 14
Page 6 of 14

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

☒ Unwanted Emission Testing (TS8996)						
Equip. No.	Description	Manufacturer	Model	Serial No.	Calibrated Date (DD.MM.YYYY)	Calibrated until (DD.MM.YYYY)
G1825844	Signal Generator	R&S	SMB100A	180840	29.09.2024	28.09.2025
G1825845	Wideband Radio Communication Tester	R&S	CMW500	165339	29.09.2024	28.09.2025
G1825846	Signal Analyzer	R&S	FSV 40	101440	29.09.2024	28.09.2025
G1825847	System Controller Interface	R&S	SCI-100	S10010036	N/A	N/A
G1825849	Filterbank	R&S	GSM	100811	29.09.2024	28.09.2025
G1825850	OSP	R&S	OSP 120	102041	N/A	N/A
G1825851	OSP	R&S	OSP 150	101385	29.10.2024	28.10.2025
G1825852	Pre-amplifier	R&S	SCU08F1	08320030	29.09.2024	28.09.2025
G1825853	Amplifier	R&S	SCU-18F	180079	29.09.2024	28.09.2025
G1825854	Amplifier	R&S	SCU40A	100450	29.09.2024	28.09.2025
G1825855	Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	192	07.10.2024	06.10.2026
G1825856	Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218719	07.10.2024	06.10.2026
G1825857	Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18312	07.10.2024	06.10.2026
G1825858	Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19066	07.10.2024	06.10.2026
G1825859	Biconical Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VUBA 9117	357	07.10.2024	06.10.2026
G1825860	Double Ridged Broadband Horn Antenna (1 – 18 GHz)	Schwarzbeck	BBHA 9120 D	01760	07.10.2024	06.10.2026
G1825861	Broadband Horn Antenna (15 – 40 GHz)	Schwarzbeck	BBHA 9170	00862	07.10.2024	06.10.2026
G1825862	Test Software	R&S	EMC32 (V10.50.40)	N/A	N/A	N/A
G1825863	Control PC	Dell	OptiPlex 7050	36NW9P2	N/A	N/A
G1826432	3m Fully Anechoic Chamber	Albatross	FAC-3m	APC1715 1-FAC	14.09.2024	13.09.2027

Prüfbericht - Nr.: CN256J3E 004

Test report no.:

Seite 7 von 14

Page 7 of 14

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 and conducted emissions measurements as below table

Parameter	Uncertainty (k=2)
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were at this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) 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 General-Purpose Robot , which supports Wi-Fi, SRD (915MHz Band), Lora, LTE and Bluetooth wireless functions.

Note: The wireless functions SRD (915MHz Band), Lora and LTE are covered by the certificated single modules below. And this report is only for verifications on spurious emissions of the LTE bands.

Modules	FCC ID	Remarks
LTE Module (Single module)	FCC ID: XMR2022RM520NGL, Approval date: 8/01/2022	Except for the antenna, there is no other changes on the module when integrated into the host (Robot). And adherence to the grant conditions for RF exposure compliance and applicable maximum ERP/EIRP rules were observed, no authorization request is needed.
Lora Module (Single module)	FCC ID: 2ASEO-RFM6601 Approval date: 10/11/2022	It verified with the client, there is no changes on the module, it assembled with an equivalent antenna when integrated into the host (Robot), no authorization request is needed.
SRD (915MHz Band) (Single module)	FCC ID: 2AXPI-R900 Approval date: 2/26/2021	
Note: As per KDB 996369 D01 section 7 and KDB 996369 D02 (Question 12), the EMC testing of the Module in simultaneous transmission operations were performed while integrated into the host. It is unnecessary to file the result of these simultaneous transmission test data since there is no emissions with increased amplitude and/or on different frequencies are detected compared to what is reported in the modular grant (that refers to single-transmitter operations testing).		

Note: Only LTE function reserved when integrated into the robot, all other functions i.e. GSM, WCDMA and 5G NR have been shielded and unavailable for users.

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

Prüfbericht - Nr.: CN256J3E 004
Test report no.:

Seite 9 von 14
Page 9 of 14

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Description of EUT (Host device)			
Kind of Equipment	General-Purpose Robot		
Type Designation	A2		
FCC ID	2BP3W-TYA201		
Operating Voltage	48V DC Battery Powered		
Testing Voltage	48V DC Battery Powered		
Type of Radio LTE			
LTE	LTE Band 2	1850 to 1910 MHz	1930 to 1990 MHz
	LTE Band 4	1710 to 1755 MHz	2110 to 2155 MHz
	LTE Band 5	824 to 849 MHz	869 to 894 MHz
	LTE Band 7	2500 to 2570 MHz	2620 to 2690 MHz
	LTE Band 12	699 to 716 MHz	729 to 746 MHz
	LTE Band 13	777 to 787 MHz	746 to 756 MHz
	LTE Band 14	788 to 798 MHz	758 to 768 MHz
	LTE Band 17	704 to 716 MHz	734 to 746 MHz
	LTE Band 25	1850 to 1915MHz	1930 to 1995 MHz
	LTE Band 26 (814 to 824 MHz)	814 to 824MHz	859 to 869 MHz
	LTE Band 26 (824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz
	LTE Band 30	2305 to 2315 MHz	2350 to 2360 MHz
	LTE Band 38	2570 to 2620 MHz	2570 to 2620 MHz
	LTE Band 41	2496 to 2690MHz	2496 to 2690MHz
	LTE Band 42	3450 to 3500 MHz	3450 to 3500 MHz
	LTE Band 43	3700 to 3800 MHz	3700 to 3800 MHz
	LTE Band 48	3550 to 3700 MHz	3550 to 3700 MHz
	LTE Band 66	1710 to 1780 MHz	2110 to 2180 MHz
	LTE Band 71	663 to 698 MHz	617 to 652 MHz
Antenna info:	600-1900MHz: 3.5dBi Max LTE B30: -1.2dBi LTE B38:1.4dBi LTE B41:1.4dBi LTE B42:1.6dBi LTE B43:1.6dBi LTE B48: -2.3dBi		

3.3 Independent Operation Modes

The basic operation modes are:

A, On, LTE link

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-----------------|------------------|
| - Block Diagram | - Photo Document |
| - Schematics | - User Manual |

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 and ANSI C63.26.

According to clause 3.1, all tests were performed on model A2 in this report.

4.3 Special Accessories and Auxiliary Equipment

N/A

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)

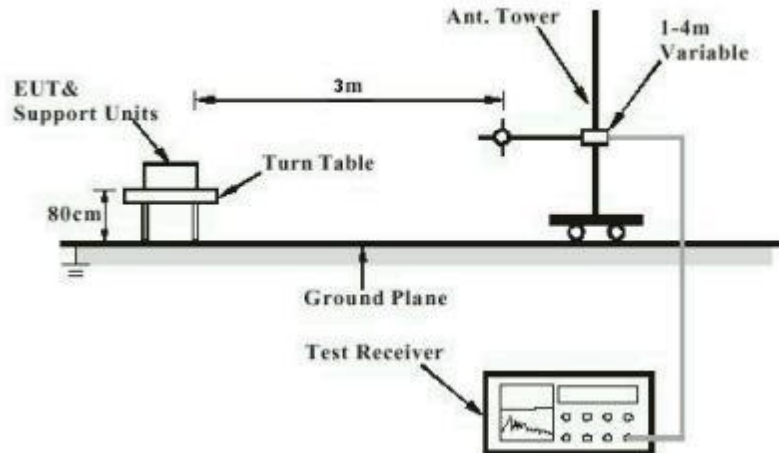


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

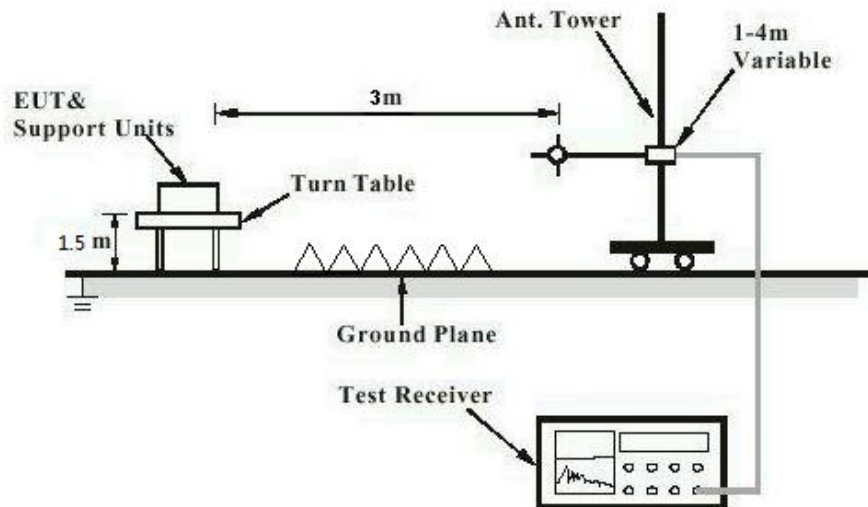
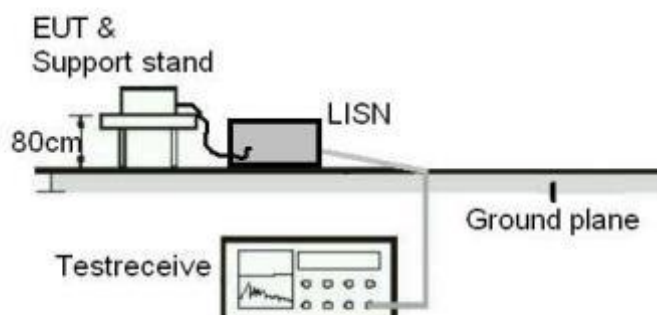


Diagram of Measurement Configuration for Mains Conduction Measurement



Prüfbericht - Nr.: CN256J3E 004
Test report no.:

Seite 13 von 14
Page 13 of 14

5 Test Results

5.1 Radiated Spurious Emissions

RESULT:

Pass

Test Specification

Test standard	:	CFR47 FCC Part 22
		CFR47 FCC Part 24
		CFR47 FCC Part 27
		CFR47 FCC Part 90
		CFR47 FCC Part 96
Basic standard	:	ANSI C63.26
Limit	:	KDB 996369 D04
		The emissions not exceed the highest limit.
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2025-05-29 to 2025-06-15
Input voltage	:	battery operated (48V DC)
Operation mode	:	A,
Earthing	:	Not Connected
Ambient temperature	:	22. °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

Note: The emissions beyond the limit are the fundamental radio frequency of modules.
For the measurement records, refer to the following plots, only the worst case mode are shown in this report.

Refer to appendix A for test results.

6 Photographs of the Test Set-Up

Referring to Appendix B

7 List of Tables

Table 1: List of Test and Measurement Equipment..... 6
 Table 2: Technical Specification of EUT 9

-----End-----

Appendix A: Test Results of Radiation Spurious Emission

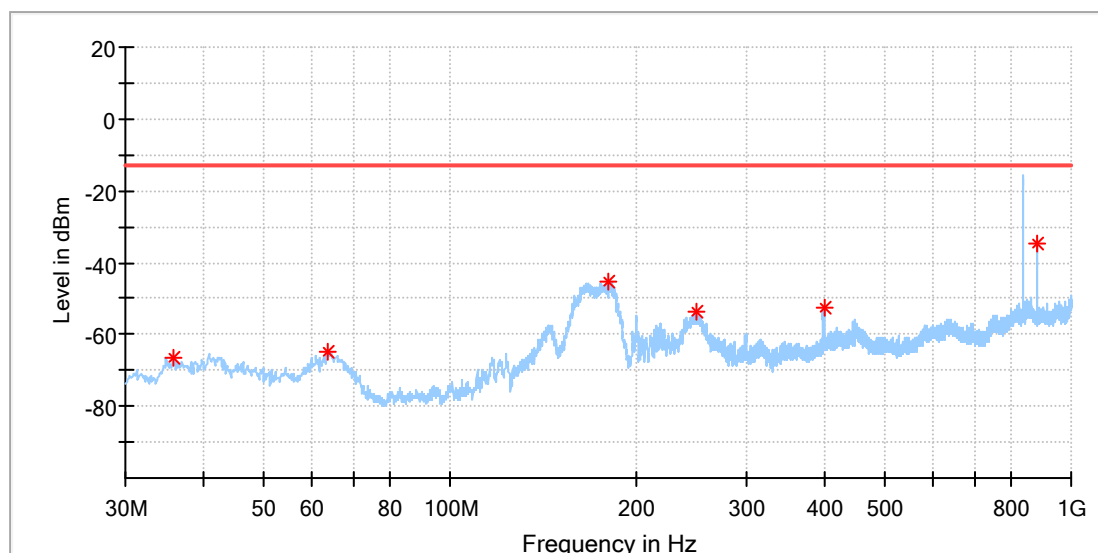
APPENDIX A: TEST RESULTS OF RADIATION SPURIOUS EMISSION1
 APPENDIX A.1: RADIATED SPURIOUS EMISSIONS - LTE.....2
 Below 1GHz2
 Above 1GHz20
 Test Results of Radiated Emissions in Simultaneous Mode45

Appendix A.1: Radiated Spurious Emissions - LTE

Below 1GHz

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

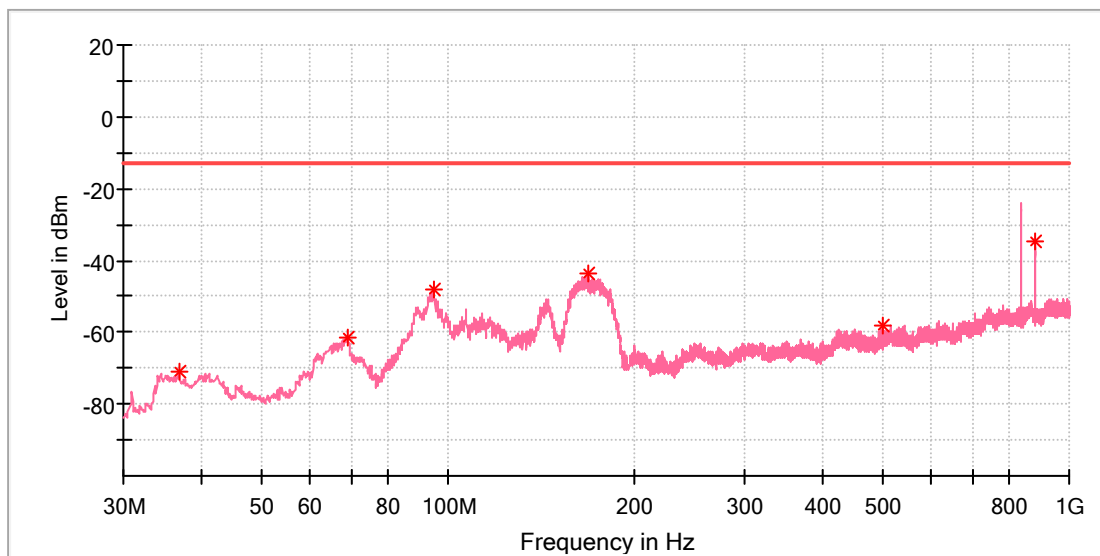


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.820000	-66.55	-13.00	53.55	100.0	H	113.0	-113.7
63.707500	-65.08	-13.00	52.08	100.0	H	104.0	-118.7
179.986250	-45.05	-13.00	32.05	100.0	H	10.0	-118.3
248.492500	-53.70	-13.00	40.70	100.0	H	261.0	-110.0
399.812500	-52.63	-13.00	39.63	100.0	H	18.0	-110.2
881.296250	-34.82	-13.00	21.82	100.0	H	340.0	-102.0

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

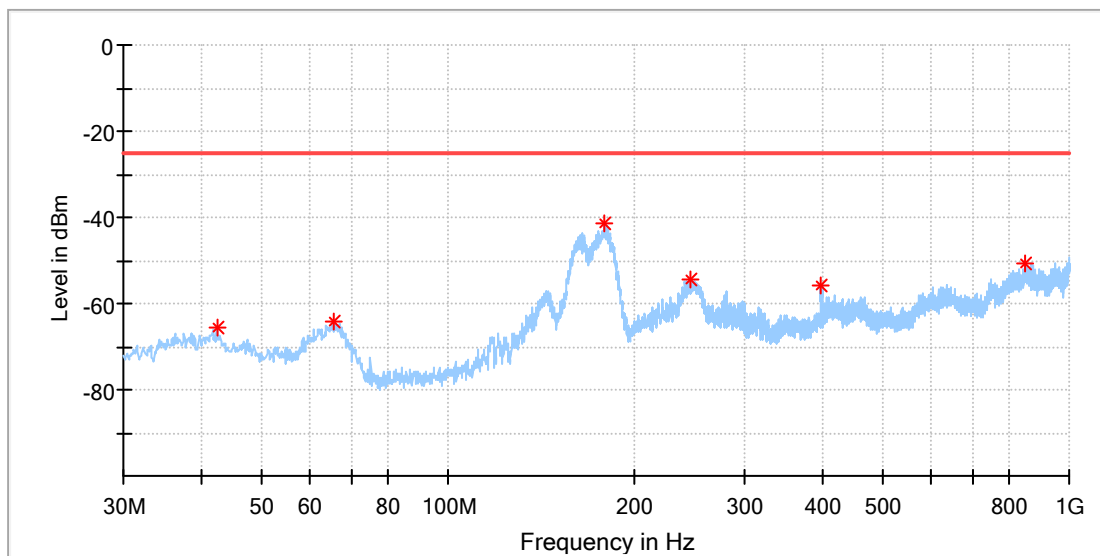


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.911250	-71.21	-13.00	58.21	100.0	V	191.0	-125.6
69.042500	-61.22	-13.00	48.22	100.0	V	0.0	-122.8
94.626250	-47.96	-13.00	34.96	100.0	V	34.0	-99.8
167.982500	-43.81	-13.00	30.81	100.0	V	39.0	-120.7
499.843750	-58.37	-13.00	45.37	100.0	V	327.0	-109.1
881.781250	-34.86	-13.00	21.86	100.0	V	343.0	-102.4

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 7_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

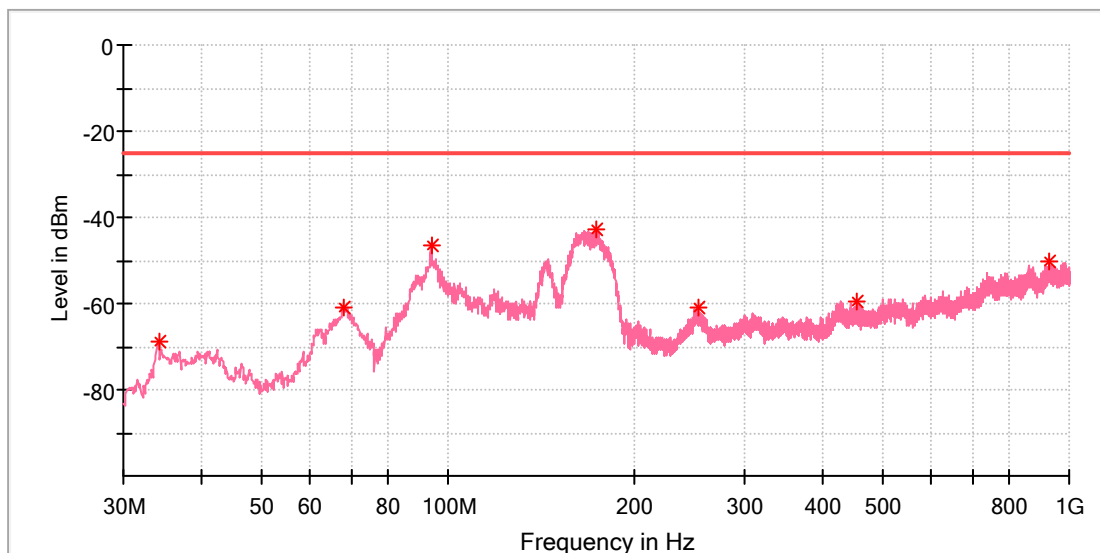


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.488750	-65.76	-25.00	40.76	100.0	H	45.0	-112.7
65.283750	-64.37	-25.00	39.37	100.0	H	100.0	-119.6
178.046250	-41.44	-25.00	16.44	100.0	H	36.0	-118.6
245.703750	-54.55	-25.00	29.55	100.0	H	0.0	-110.0
398.357500	-55.84	-25.00	30.84	100.0	H	55.0	-110.3
851.832500	-50.93	-25.00	25.93	100.0	H	247.0	-99.8

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 7_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

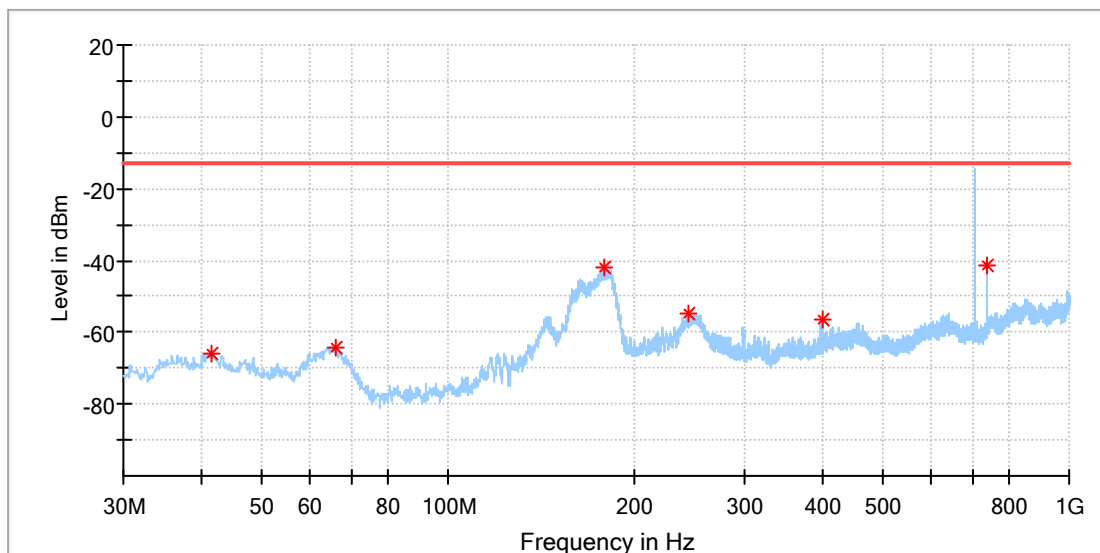


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.243750	-68.93	-25.00	43.93	100.0	V	272.0	-128.6
68.072500	-60.87	-25.00	35.87	100.0	V	0.0	-122.8
93.898750	-46.42	-25.00	21.42	100.0	V	43.0	-100.3
172.590000	-42.94	-25.00	17.94	100.0	V	38.0	-120.6
252.130000	-61.11	-25.00	36.11	100.0	V	13.0	-114.4
454.253750	-59.48	-25.00	34.48	100.0	V	187.0	-109.5
926.886250	-50.10	-25.00	25.10	100.0	V	356.0	-100.0

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

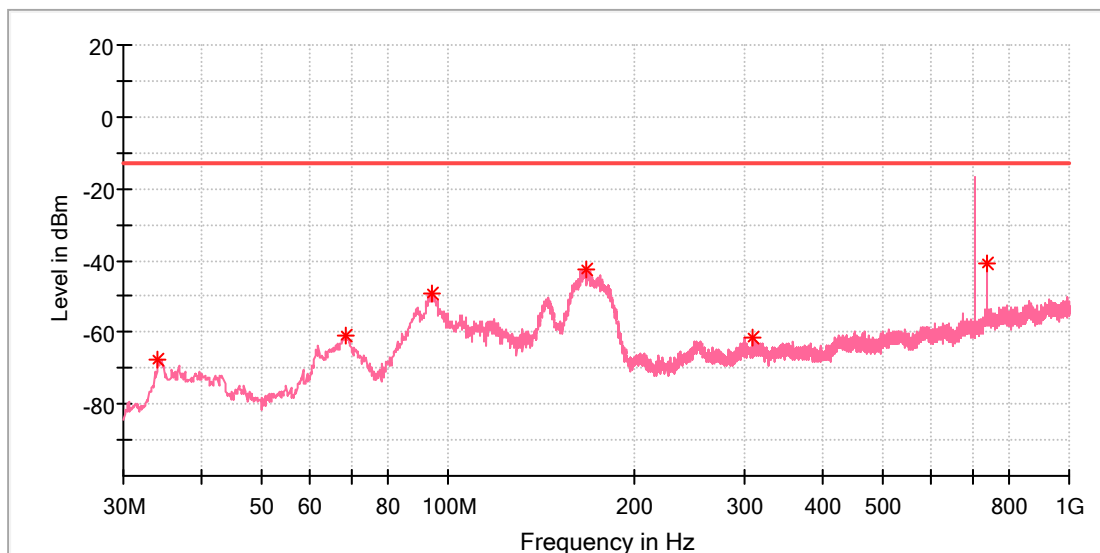


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.518750	-65.82	-13.00	52.82	100.0	H	249.0	-112.3
66.132500	-64.21	-13.00	51.21	100.0	H	109.0	-120.2
178.895000	-41.95	-13.00	28.95	100.0	H	48.0	-118.5
243.642500	-54.54	-13.00	41.54	100.0	H	260.0	-110.0
399.933750	-56.68	-13.00	43.68	100.0	H	40.0	-110.2
737.372500	-41.67	-13.00	28.67	100.0	H	337.0	-105.1

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

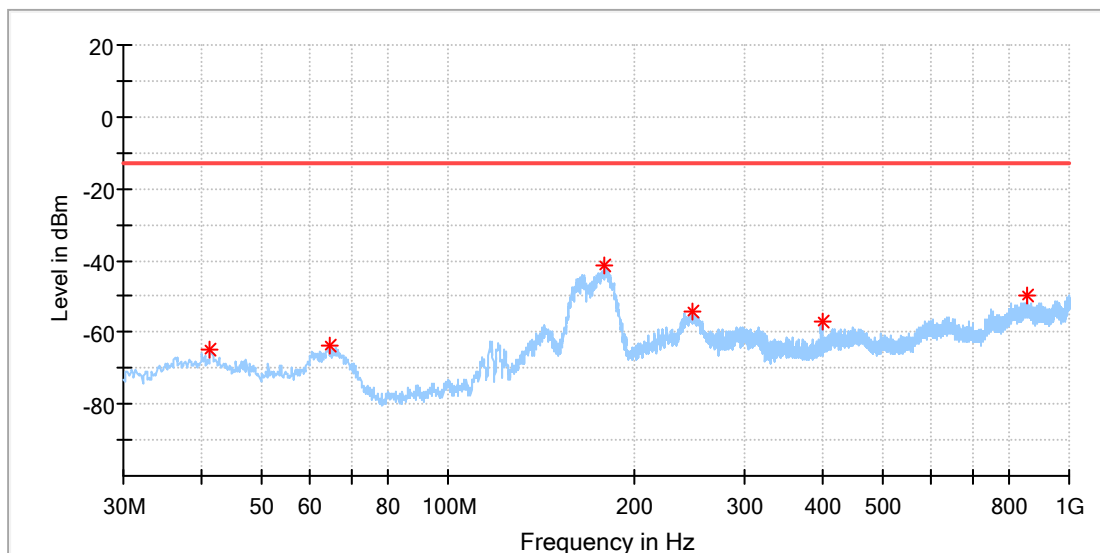


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.122500	-67.86	-13.00	54.86	100.0	V	312.0	-128.8
68.193750	-60.81	-13.00	47.81	100.0	V	0.0	-122.8
94.505000	-49.06	-13.00	36.06	100.0	V	22.0	-99.7
166.406250	-42.58	-13.00	29.58	100.0	V	38.0	-120.5
310.087500	-61.29	-13.00	48.29	100.0	V	46.0	-111.1
737.493750	-40.97	-13.00	27.97	100.0	V	335.0	-101.9

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 25_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

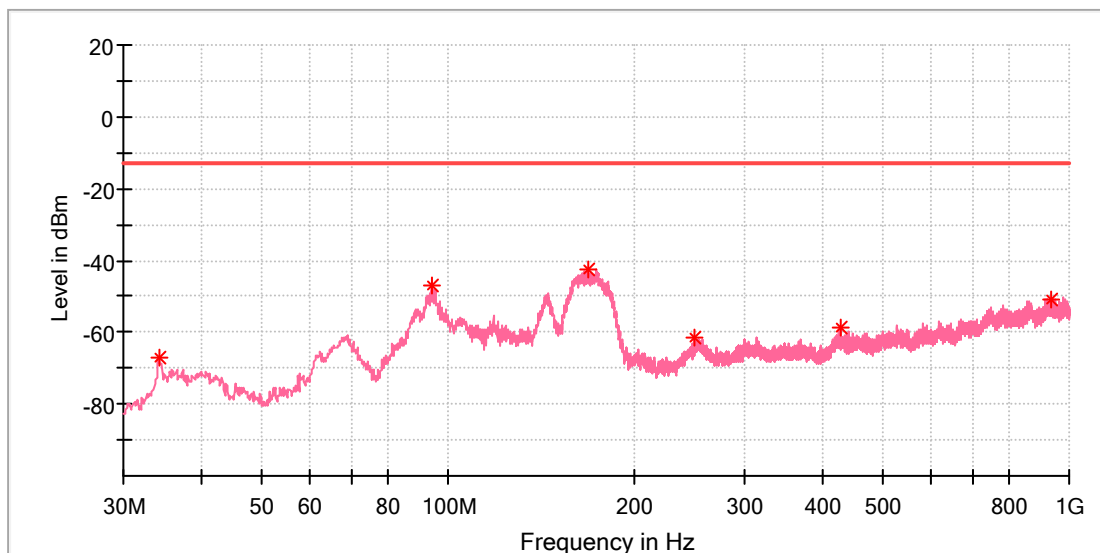


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.397500	-64.94	-13.00	51.94	100.0	H	290.0	-112.4
64.313750	-63.64	-13.00	50.64	100.0	H	110.0	-119.0
178.410000	-41.60	-13.00	28.60	100.0	H	36.0	-118.6
246.673750	-54.51	-13.00	41.51	100.0	H	13.0	-110.0
399.691250	-56.92	-13.00	43.92	100.0	H	200.0	-110.2
856.682500	-49.65	-13.00	36.65	100.0	H	321.0	-100.1

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 25_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

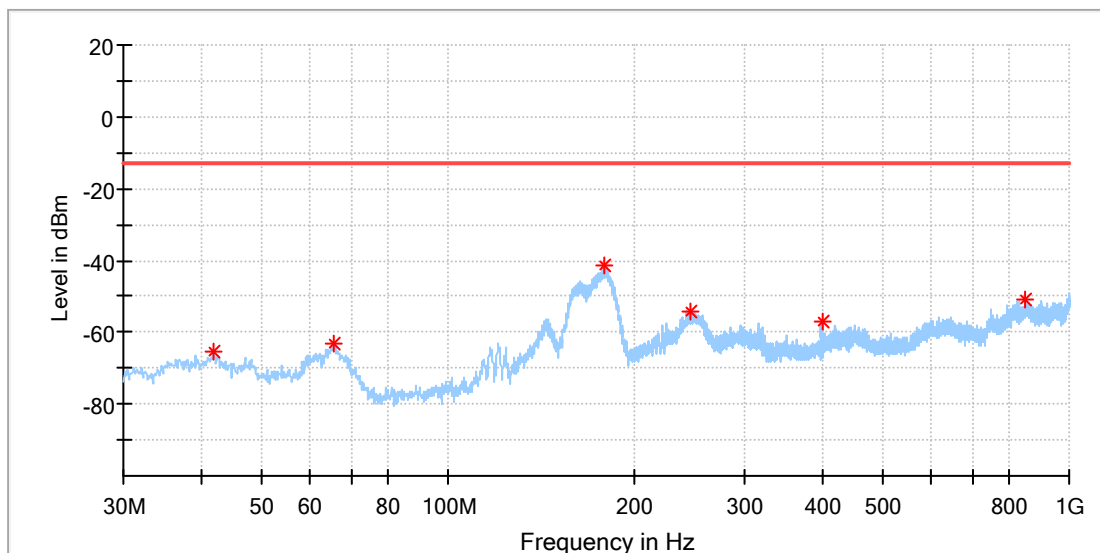


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.243750	-67.16	-13.00	54.16	100.0	V	307.0	-128.6
93.898750	-47.10	-13.00	34.10	100.0	V	87.0	-100.3
167.740000	-42.63	-13.00	29.63	100.0	V	53.0	-120.6
249.705000	-61.50	-13.00	48.50	100.0	V	124.0	-114.6
429.033750	-58.74	-13.00	45.74	100.0	V	179.0	-110.8
937.556250	-50.83	-13.00	37.83	100.0	V	118.0	-100.1

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 30_10M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

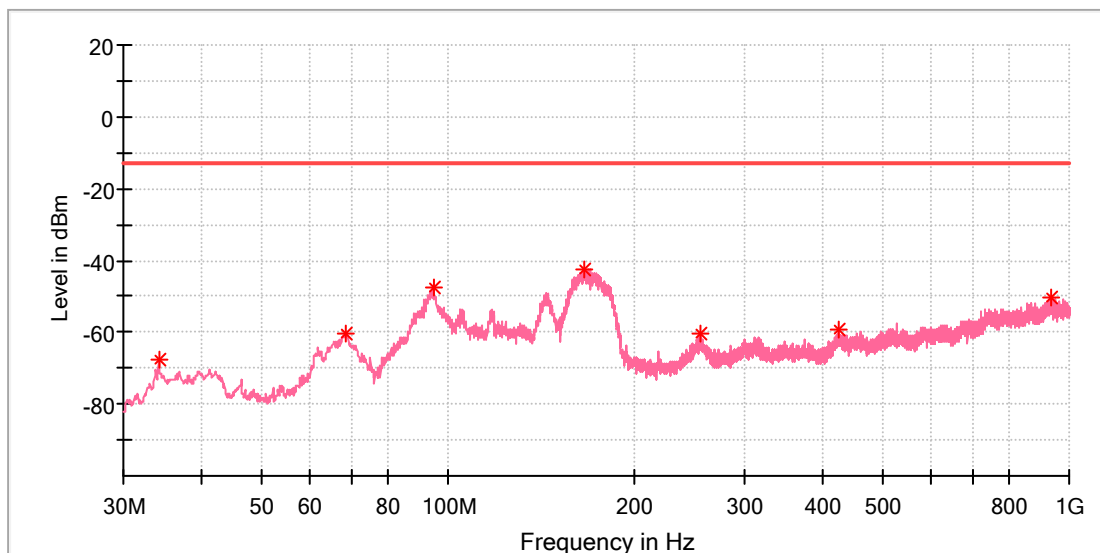


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.882500	-65.53	-13.00	52.54	100.0	H	328.0	-112.4
65.647500	-63.44	-13.00	50.44	100.0	H	94.0	-119.8
178.895000	-41.34	-13.00	28.34	100.0	H	55.0	-118.5
245.946250	-54.17	-13.00	41.17	100.0	H	265.0	-110.0
399.691250	-57.03	-13.00	44.03	100.0	H	192.0	-110.2
847.710000	-51.00	-13.00	38.00	100.0	H	0.0	-100.0

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 30_10M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

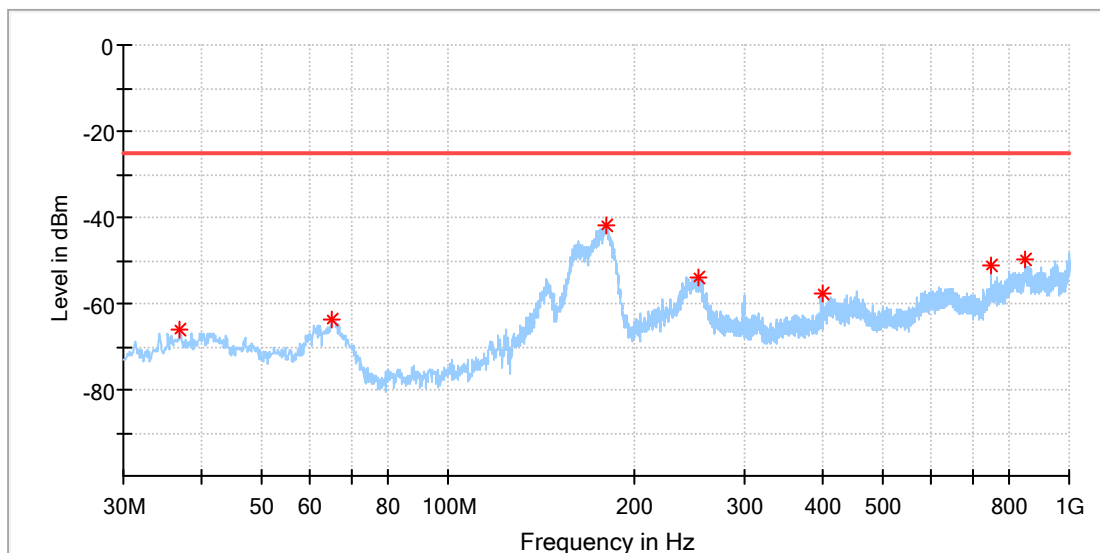


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.243750	-67.79	-13.00	54.79	100.0	V	263.0	-128.6
68.557500	-60.55	-13.00	47.55	100.0	V	9.0	-122.8
94.747500	-47.38	-13.00	34.38	100.0	V	82.0	-99.8
165.678750	-42.35	-13.00	29.35	100.0	V	45.0	-120.5
254.433750	-60.37	-13.00	47.37	100.0	V	148.0	-114.2
424.426250	-59.12	-13.00	46.12	100.0	V	253.0	-110.7
937.677500	-50.52	-13.00	37.52	100.0	V	138.0	-100.1

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 41_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

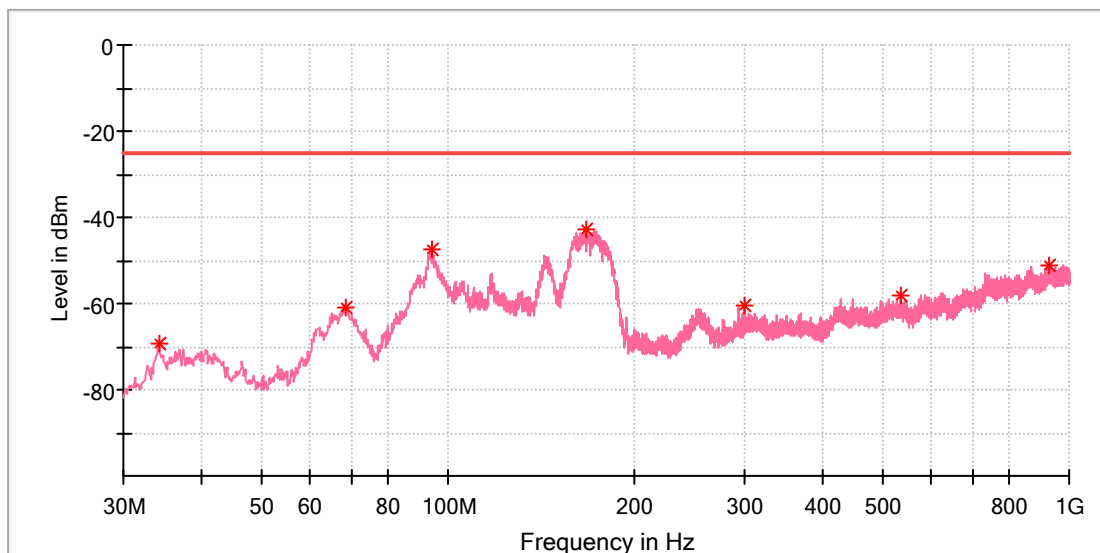


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
37.032500	-65.92	-25.00	40.92	100.0	H	354.0	-113.5
65.041250	-63.87	-25.00	38.87	100.0	H	92.0	-119.4
179.258750	-41.79	-25.00	16.79	100.0	H	27.0	-118.4
252.372500	-53.72	-25.00	28.72	100.0	H	173.0	-110.5
399.812500	-57.47	-25.00	32.47	100.0	H	4.0	-110.2
750.103750	-51.27	-25.00	26.27	100.0	H	317.0	-103.4
851.590000	-49.75	-25.00	24.75	100.0	H	106.0	-99.8

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 41_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

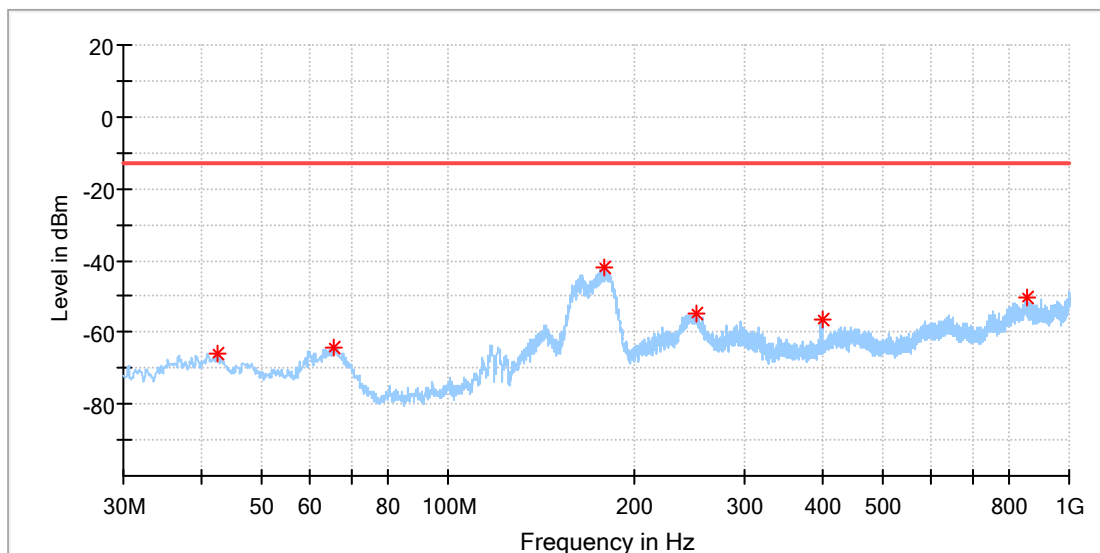


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.243750	-69.35	-25.00	44.35	100.0	V	0.0	-128.6
68.557500	-60.77	-25.00	35.77	100.0	V	314.0	-122.8
94.020000	-47.50	-25.00	22.50	100.0	V	64.0	-100.1
166.527500	-42.63	-25.00	17.63	100.0	V	54.0	-120.6
299.538750	-60.40	-25.00	35.40	100.0	V	304.0	-111.2
533.915000	-58.14	-25.00	33.14	100.0	V	79.0	-107.6
930.281250	-51.23	-25.00	26.23	100.0	V	93.0	-100.0

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 42_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

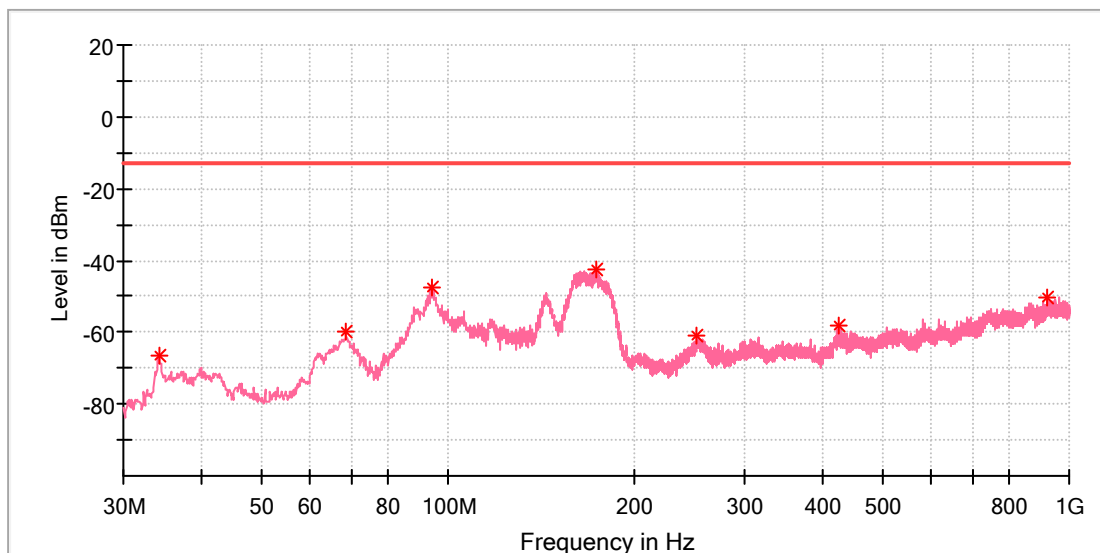


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.488750	-66.10	-13.00	53.10	100.0	H	307.0	-112.7
65.283750	-64.43	-13.00	51.43	100.0	H	92.0	-119.6
178.531250	-41.98	-13.00	28.98	100.0	H	17.0	-118.5
250.675000	-54.57	-13.00	41.57	100.0	H	264.0	-110.2
399.933750	-56.55	-13.00	43.55	100.0	H	194.0	-110.2
858.137500	-50.22	-13.00	37.22	100.0	H	34.0	-100.2

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 42_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

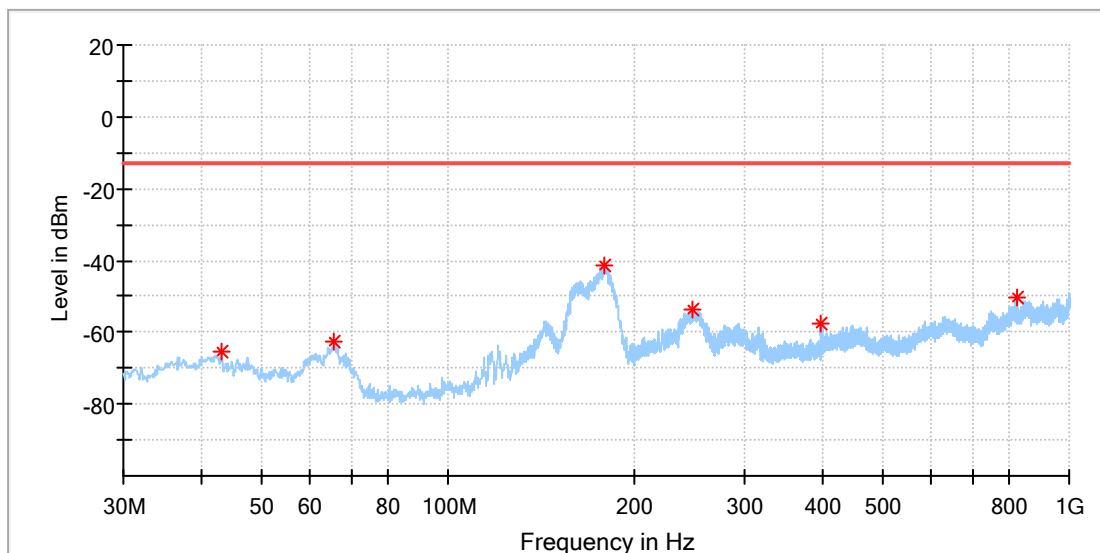


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.243750	-66.68	-13.00	53.68	100.0	V	316.0	-128.6
68.557500	-60.08	-13.00	47.08	100.0	V	0.0	-122.8
93.898750	-47.35	-13.00	34.35	100.0	V	38.0	-100.3
172.590000	-42.51	-13.00	29.51	100.0	V	51.0	-120.6
251.887500	-61.01	-13.00	48.01	100.0	V	11.0	-114.4
425.153750	-58.10	-13.00	45.10	100.0	V	237.0	-110.8
919.247500	-50.12	-13.00	37.12	100.0	V	60.0	-100.2

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

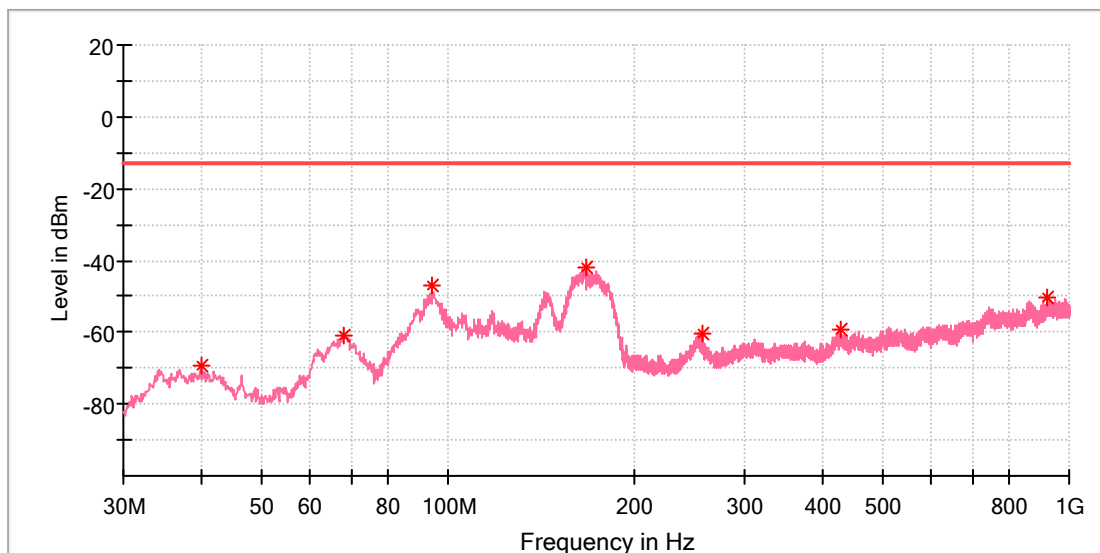


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
43.216250	-65.56	-13.00	52.56	100.0	H	101.0	-113.5
65.647500	-62.82	-13.00	49.82	100.0	H	116.0	-119.8
178.288750	-41.45	-13.00	28.45	100.0	H	21.0	-118.6
248.128750	-53.84	-13.00	40.85	100.0	H	174.0	-110.0
398.357500	-57.59	-13.00	44.59	100.0	H	202.0	-110.3
826.612500	-50.60	-13.00	37.60	100.0	H	105.0	-101.4

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

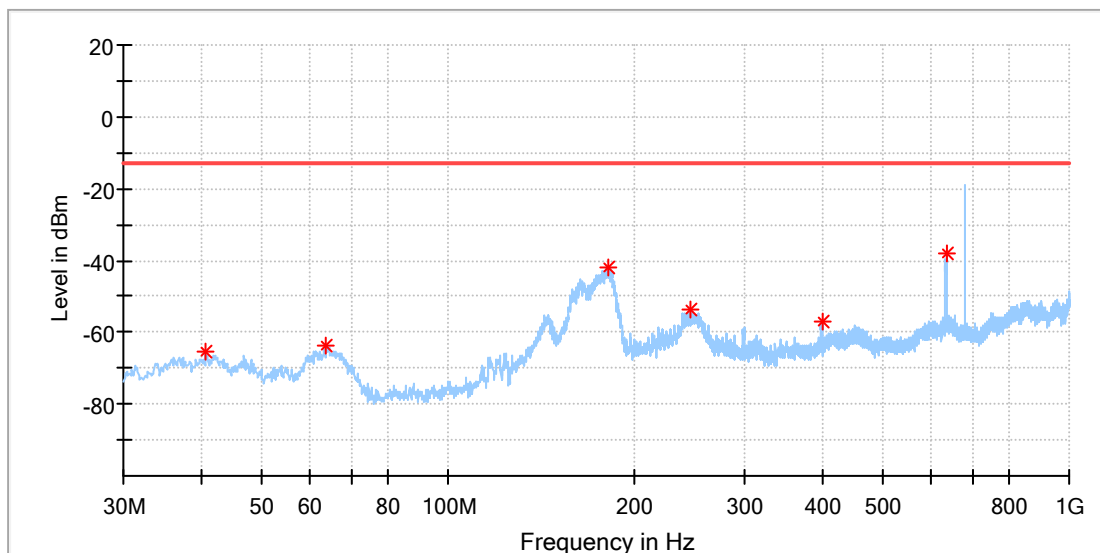


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
39.942500	-69.47	-13.00	56.47	100.0	V	165.0	-125.0
67.708750	-60.74	-13.00	47.74	100.0	V	2.0	-122.8
94.262500	-46.88	-13.00	33.88	100.0	V	45.0	-99.7
166.285000	-42.13	-13.00	29.13	100.0	V	45.0	-120.5
256.373750	-60.10	-13.00	47.10	100.0	V	159.0	-114.2
427.942500	-59.08	-13.00	46.08	100.0	V	230.0	-110.8
922.885000	-50.16	-13.00	37.16	100.0	V	198.0	-100.1

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 71_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

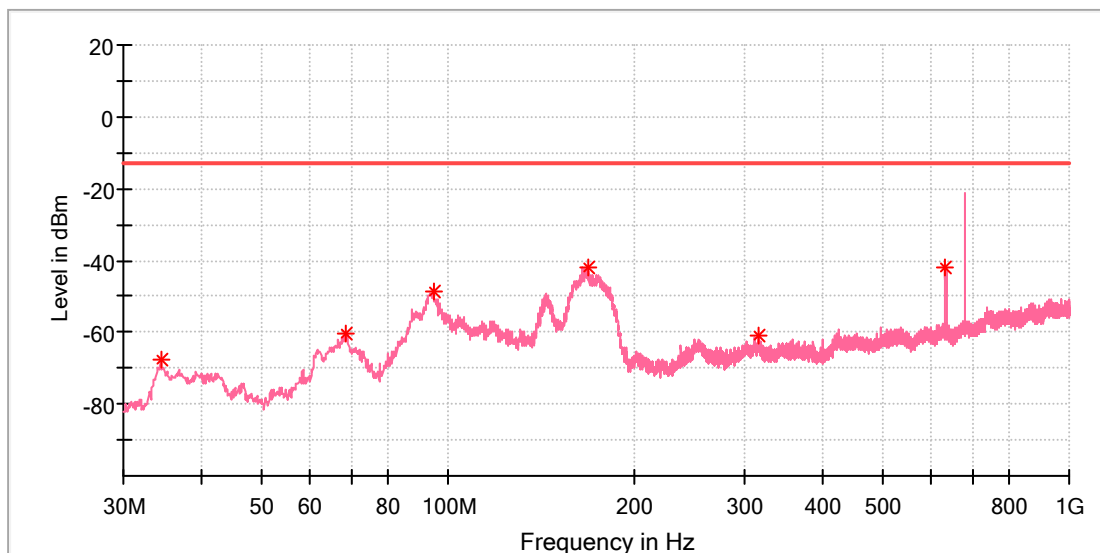


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
40.670000	-65.35	-13.00	52.35	100.0	H	249.0	-112.7
63.707500	-63.94	-13.00	50.94	100.0	H	120.0	-118.7
180.471250	-42.01	-13.00	29.01	100.0	H	54.0	-118.1
244.855000	-53.89	-13.00	40.89	100.0	H	259.0	-110.0
399.933750	-56.85	-13.00	43.85	100.0	H	78.0	-110.2
633.703750	-38.23	-13.00	25.23	100.0	H	284.0	-104.7

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 71_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



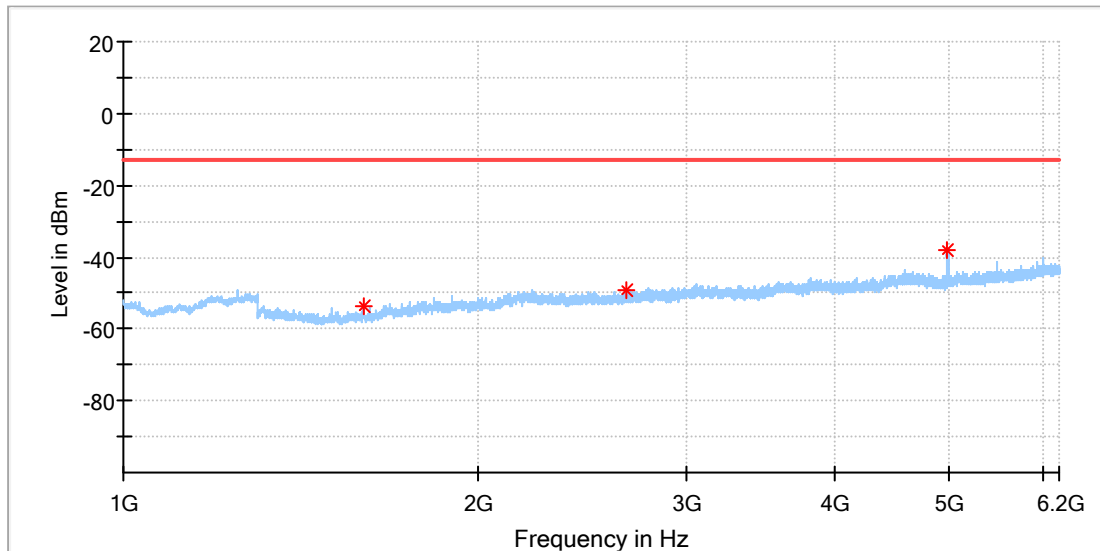
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.486250	-67.59	-13.00	54.59	100.0	V	302.0	-128.2
68.678750	-60.37	-13.00	47.37	100.0	V	54.0	-122.8
94.868750	-48.50	-13.00	35.50	100.0	V	68.0	-99.8
167.618750	-42.09	-13.00	29.09	100.0	V	38.0	-120.6
315.422500	-61.07	-13.00	48.07	100.0	V	19.0	-111.4
632.491250	-41.98	-13.00	28.98	100.0	V	306.0	-106.6

Above 1GHz

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

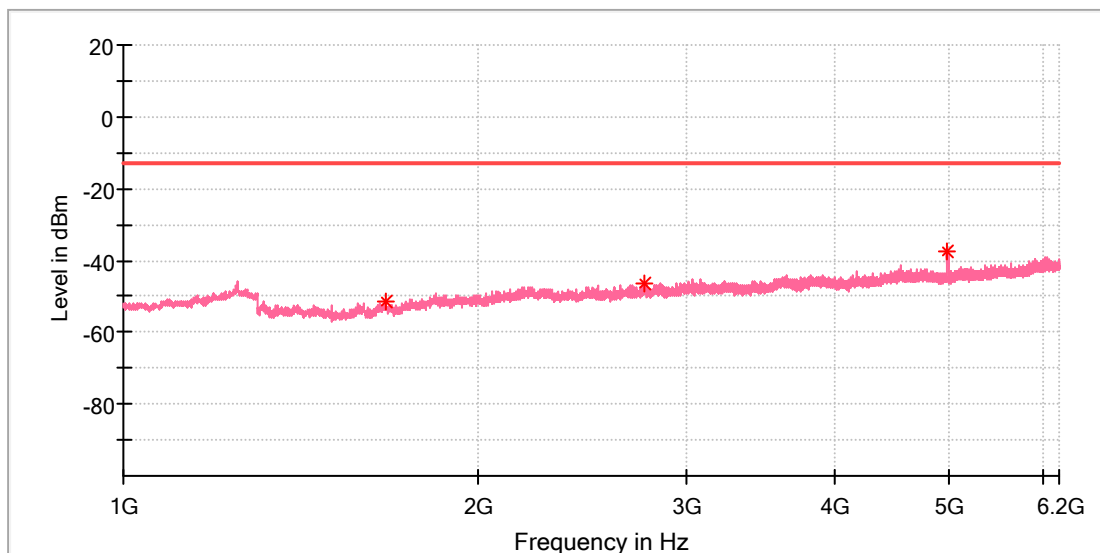


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1595.500000	-53.83	-13.00	40.83	150.0	H	214.0	-94.0
2663.500000	-49.09	-13.00	36.09	150.0	H	178.0	-88.4
4985.000000	-37.96	-13.00	24.96	150.0	H	270.0	-84.3

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

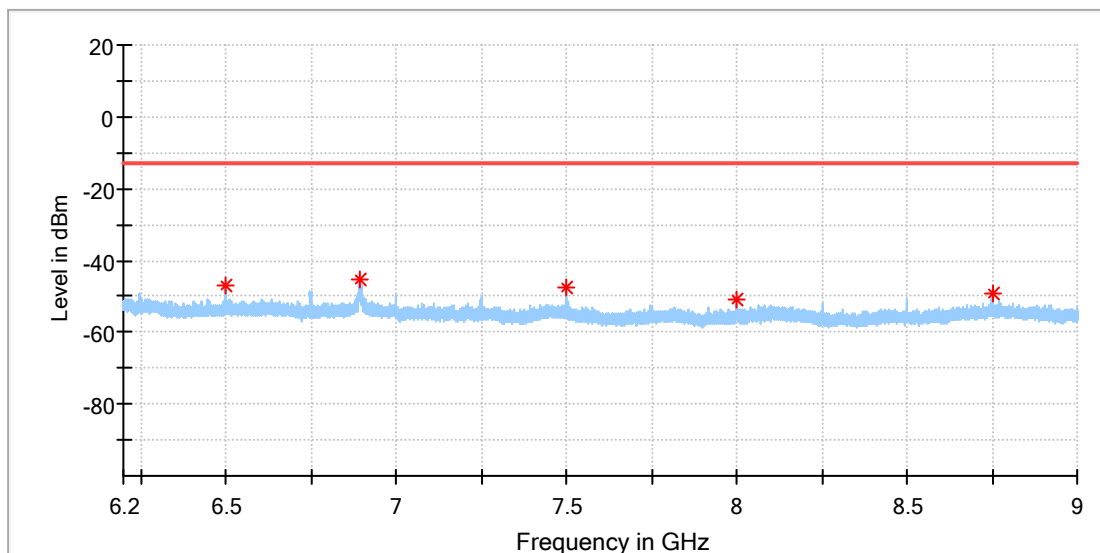


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1666.000000	-51.40	-13.00	38.40	150.0	V	354.0	-90.2
2757.500000	-46.17	-13.00	33.17	150.0	V	50.0	-85.7
4980.500000	-37.37	-13.00	24.37	150.0	V	348.0	-82.2

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

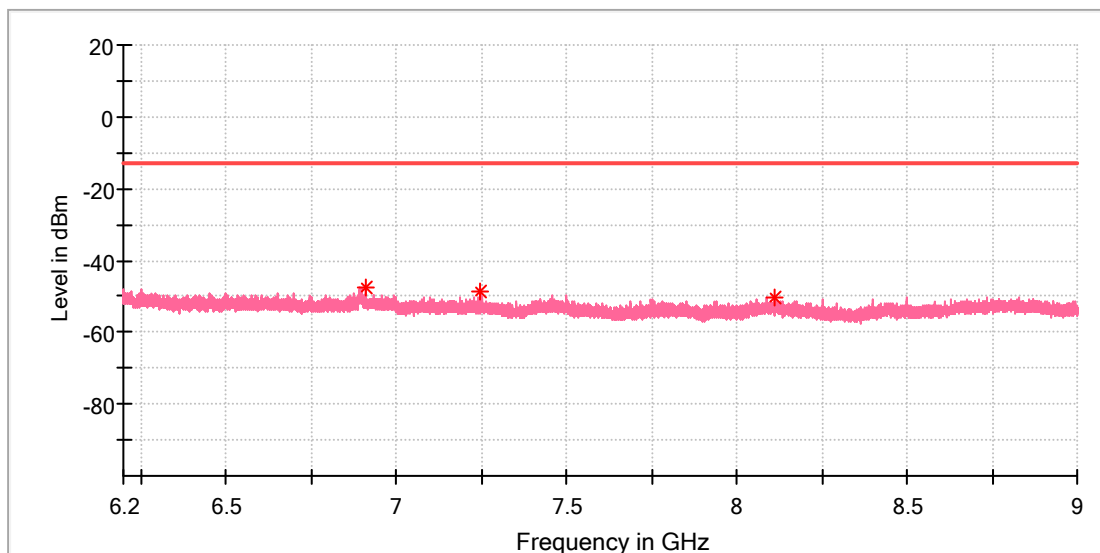


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6499.716667	-47.02	-13.00	34.02	150.0	H	117.0	-88.6
6895.333333	-45.19	-13.00	32.19	150.0	H	267.0	-88.8
7499.900000	-47.74	-13.00	34.74	150.0	H	80.0	-88.3
8000.166667	-50.78	-13.00	37.78	150.0	H	214.0	-89.0
8750.216667	-49.37	-13.00	36.37	150.0	H	214.0	-86.4

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

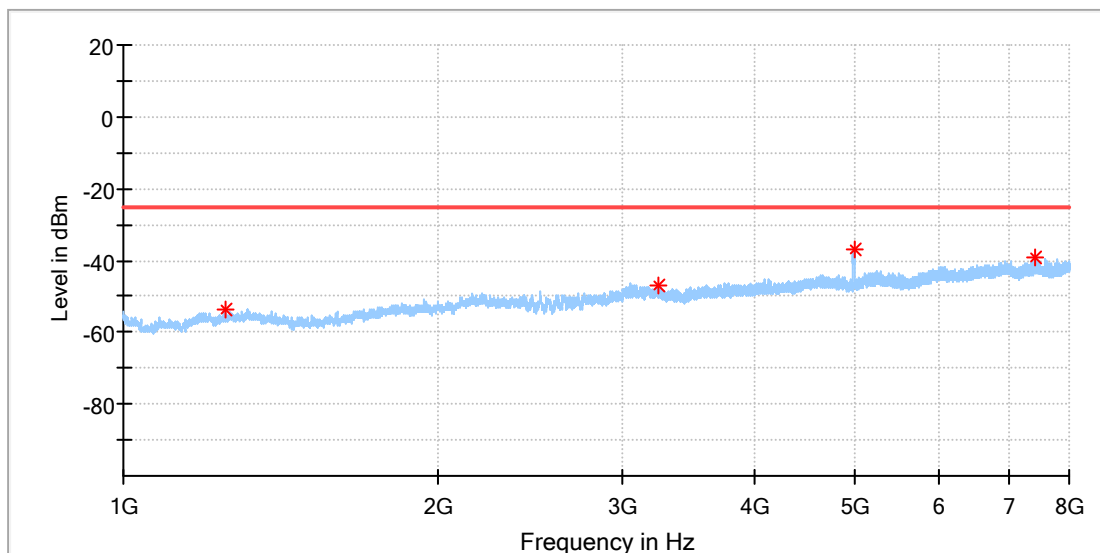


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6909.216667	-47.28	-13.00	34.28	150.0	V	175.0	-87.0
7249.883333	-48.79	-13.00	35.79	150.0	V	192.0	-86.5
8111.816667	-50.40	-13.00	37.40	150.0	V	184.0	-86.5

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 7_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

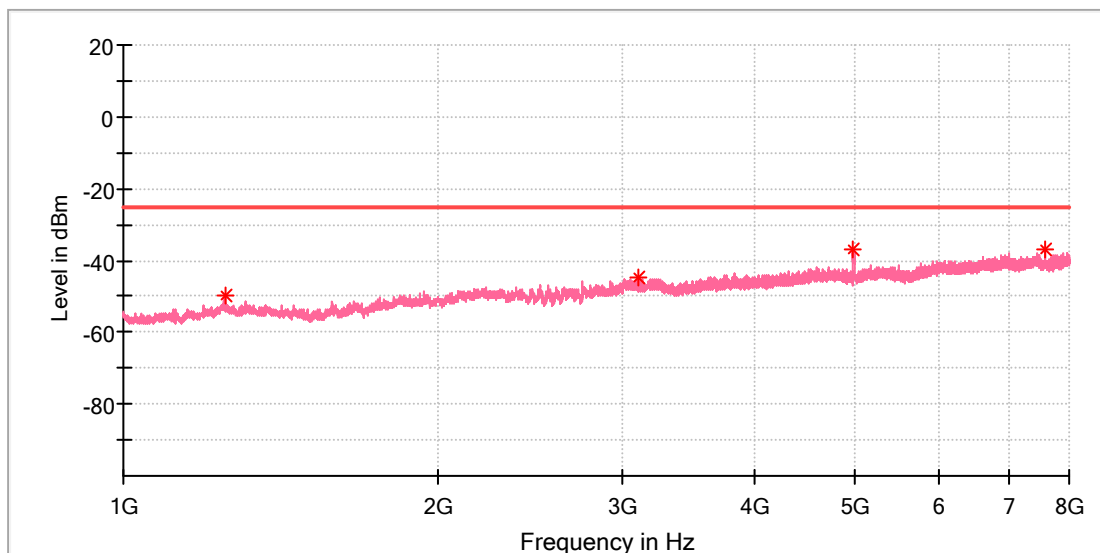


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	-53.63	-25.00	28.63	150.0	H	304.0	-92.9
3238.000000	-46.95	-25.00	21.95	150.0	H	0.0	-85.7
5000.000000	-37.00	-25.00	12.00	150.0	H	271.0	-83.6
7437.500000	-38.91	-25.00	13.91	150.0	H	6.0	-77.7

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 7_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

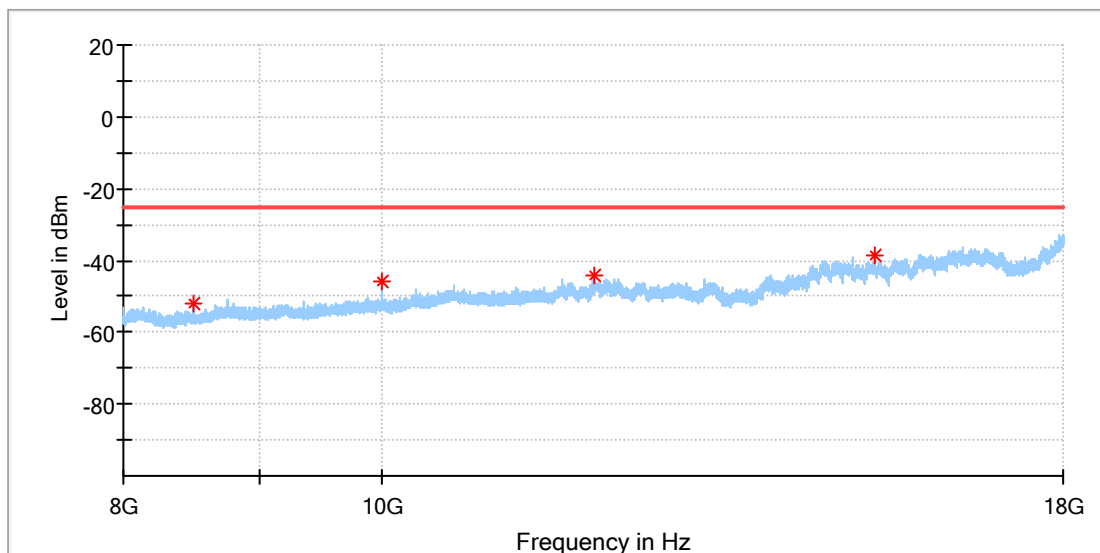


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	-49.75	-25.00	24.75	150.0	V	0.0	-90.1
3101.500000	-45.02	-25.00	20.02	150.0	V	55.0	-83.4
4977.500000	-37.21	-25.00	12.21	150.0	V	352.0	-81.5
7599.000000	-37.20	-25.00	12.20	150.0	V	304.0	-76.5

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 7_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

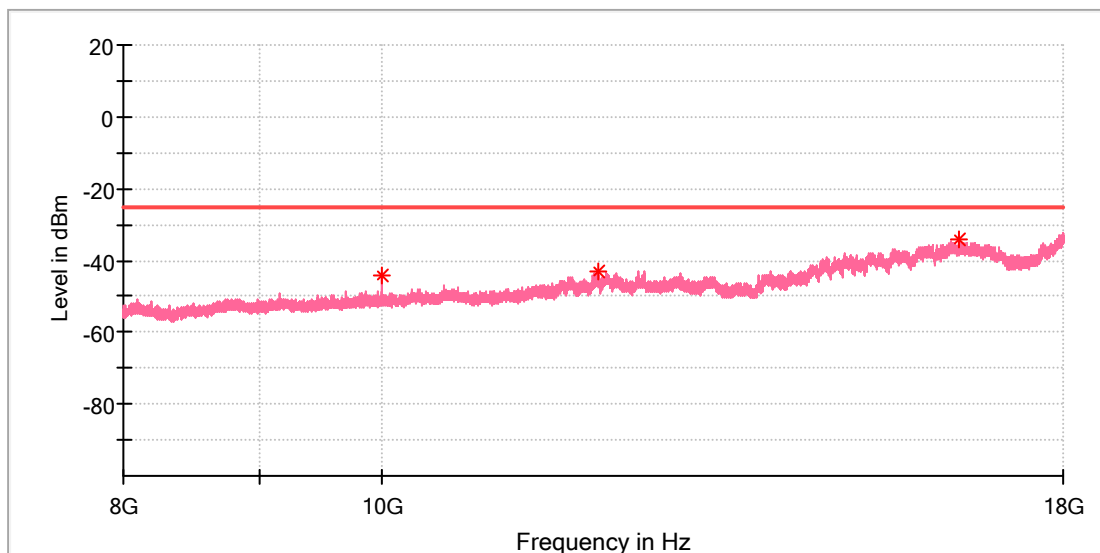


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8499.500000	-51.83	-25.00	26.83	150.0	H	223.0	-89.1
10000.000000	-45.58	-25.00	20.58	150.0	H	199.0	-85.0
12000.000000	-44.09	-25.00	19.09	150.0	H	249.0	-80.7
15297.500000	-38.46	-25.00	13.46	150.0	H	96.0	-76.9

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 7_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

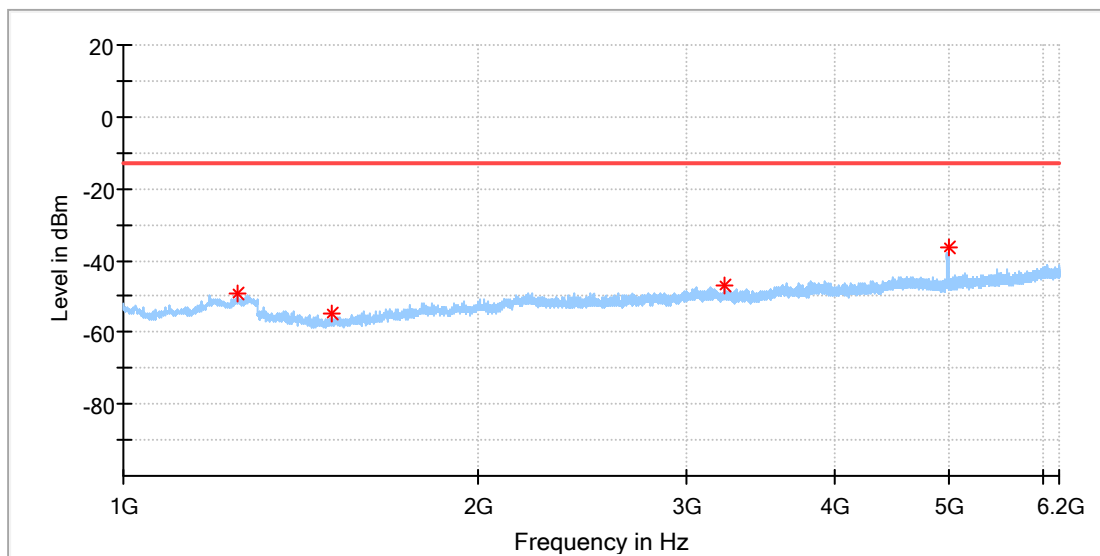


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
10000.000000	-44.38	-25.00	19.38	150.0	V	149.0	-83.5
12048.500000	-42.88	-25.00	17.88	150.0	V	77.0	-77.7
16464.500000	-34.34	-25.00	9.34	150.0	V	134.0	-70.8

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

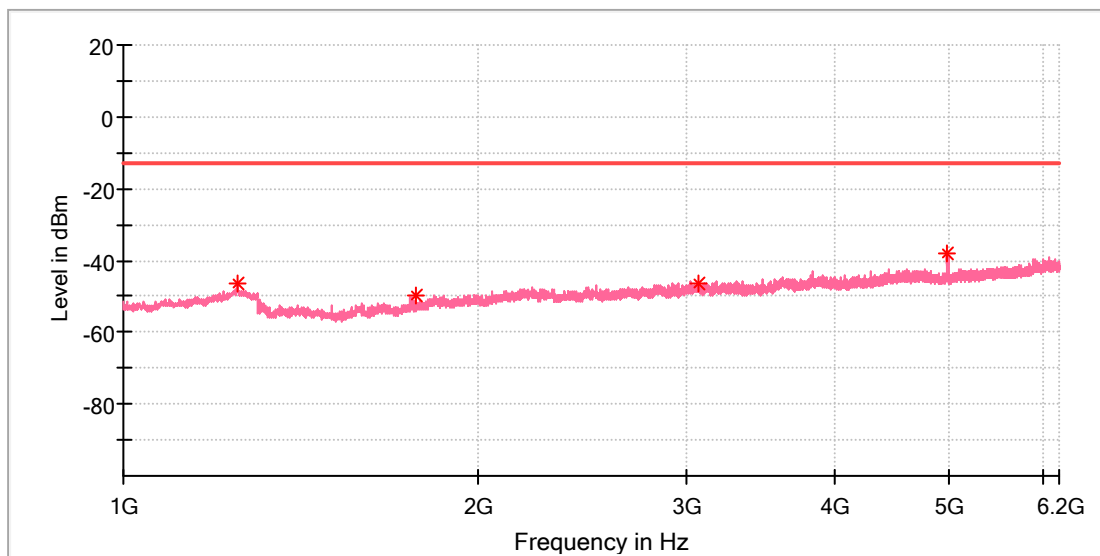


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1250.000000	-49.21	-13.00	36.21	150.0	H	305.0	-93.7
1499.500000	-54.73	-13.00	41.73	150.0	H	27.0	-94.1
3234.000000	-47.04	-13.00	34.04	150.0	H	272.0	-86.8
4999.500000	-36.10	-13.00	23.10	150.0	H	272.0	-84.2

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

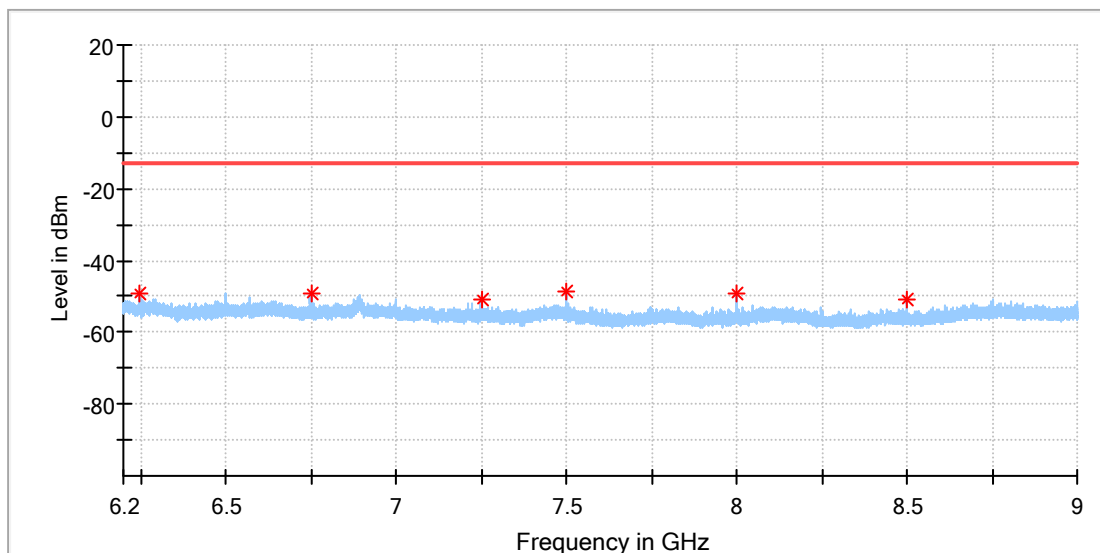


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	-46.38	-13.00	33.38	150.0	V	236.0	-90.8
1768.500000	-49.56	-13.00	36.56	150.0	V	175.0	-89.1
3066.000000	-46.18	-13.00	33.18	150.0	V	249.0	-84.9
4982.000000	-37.91	-13.00	24.91	150.0	V	354.0	-82.2

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

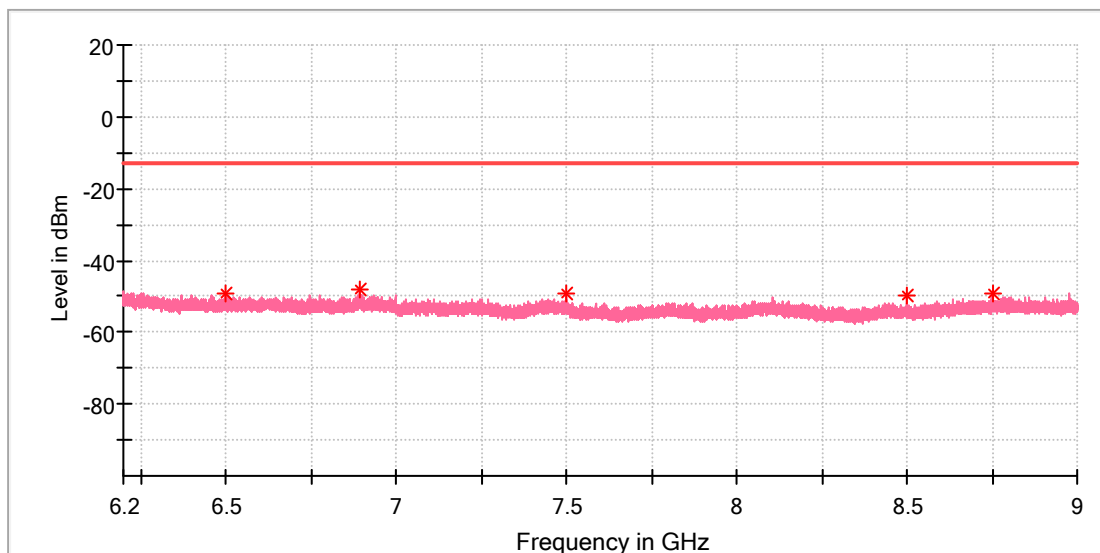


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6249.816667	-49.22	-13.00	36.22	150.0	H	103.0	-88.0
6750.200000	-49.37	-13.00	36.37	150.0	H	121.0	-89.7
7250.000000	-50.62	-13.00	37.62	150.0	H	103.0	-88.6
7499.783333	-48.53	-13.00	35.53	150.0	H	40.0	-88.3
8000.050000	-49.42	-13.00	36.42	150.0	H	217.0	-89.0
8499.616667	-50.65	-13.00	37.65	150.0	H	202.0	-89.1

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

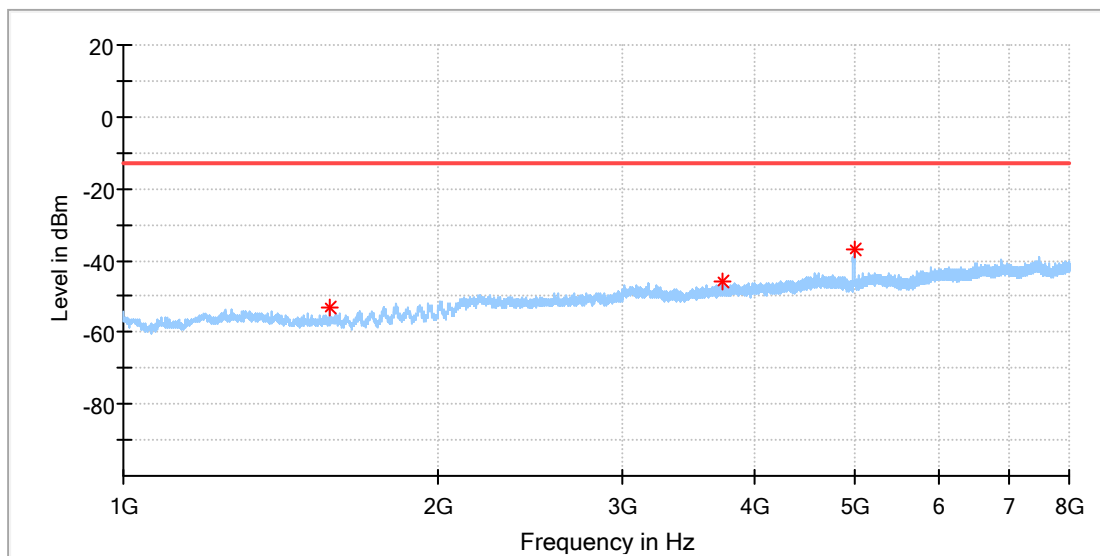


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6500.183333	-48.94	-13.00	35.94	150.0	V	86.0	-86.9
6896.500000	-48.08	-13.00	35.08	150.0	V	159.0	-87.0
7500.250000	-49.47	-13.00	36.47	150.0	V	177.0	-86.6
8499.616667	-49.63	-13.00	36.63	150.0	V	159.0	-87.0
8750.100000	-49.37	-13.00	36.37	150.0	V	168.0	-84.9

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 25_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

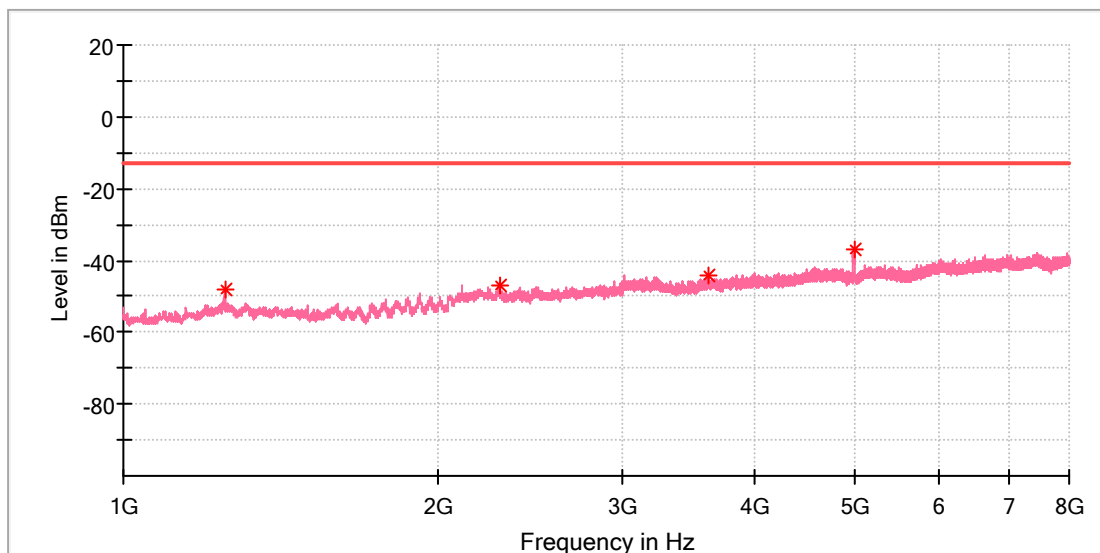


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1575.000000	-53.22	-13.00	40.22	150.0	H	284.0	-93.7
3729.000000	-46.01	-13.00	33.01	150.0	H	61.0	-85.5
4999.000000	-36.76	-13.00	23.76	150.0	H	267.0	-83.6

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 25_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

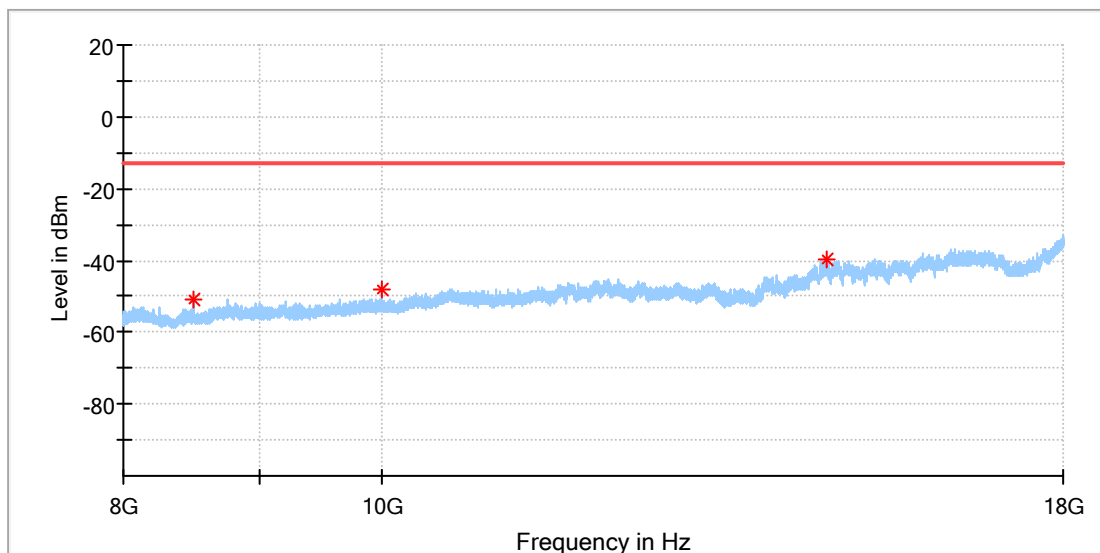


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	-48.11	-13.00	35.11	150.0	V	238.0	-90.1
2285.500000	-47.11	-13.00	34.11	150.0	V	0.0	-85.9
3612.500000	-43.97	-13.00	30.97	150.0	V	0.0	-83.6
4987.500000	-37.00	-13.00	24.00	150.0	V	355.0	-81.6

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 25_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

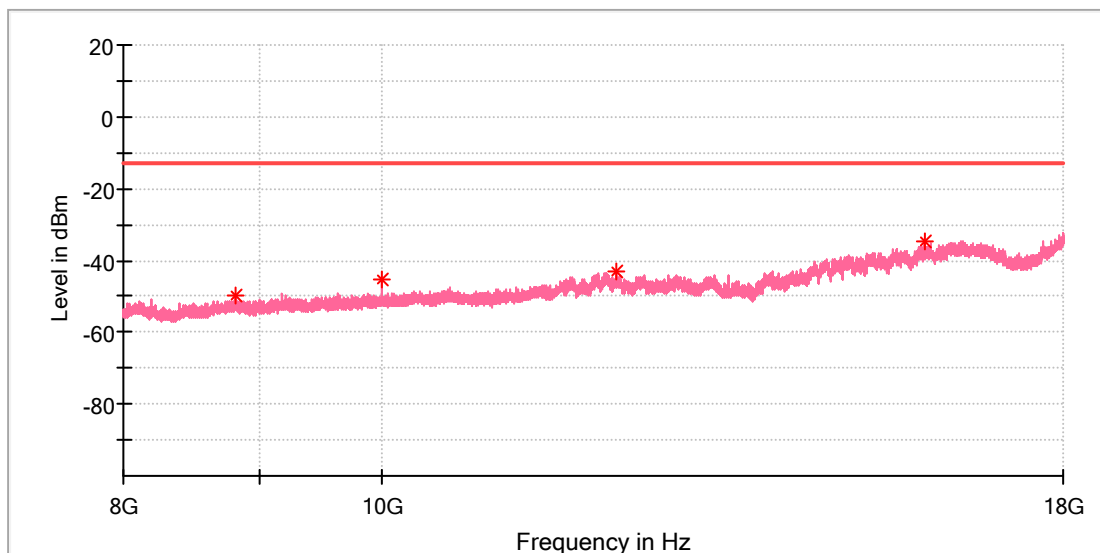


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8499.500000	-51.07	-13.00	38.07	150.0	H	47.0	-89.1
10000.000000	-48.03	-13.00	35.03	150.0	H	136.0	-85.0
14674.500000	-39.63	-13.00	26.63	150.0	H	58.0	-76.3

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 25_1.4M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

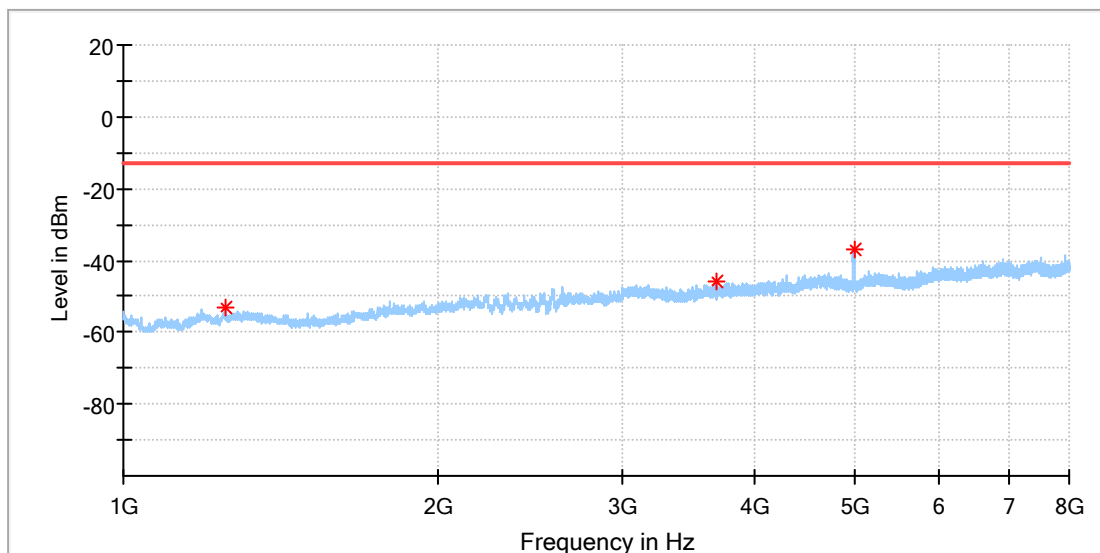


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8813.500000	-49.56	-13.00	36.56	150.0	V	58.0	-84.7
10000.000000	-45.08	-13.00	32.08	150.0	V	194.0	-83.5
12240.000000	-42.97	-13.00	29.97	150.0	V	147.0	-78.3
15962.000000	-34.96	-13.00	21.96	150.0	V	0.0	-72.1

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 30_10M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

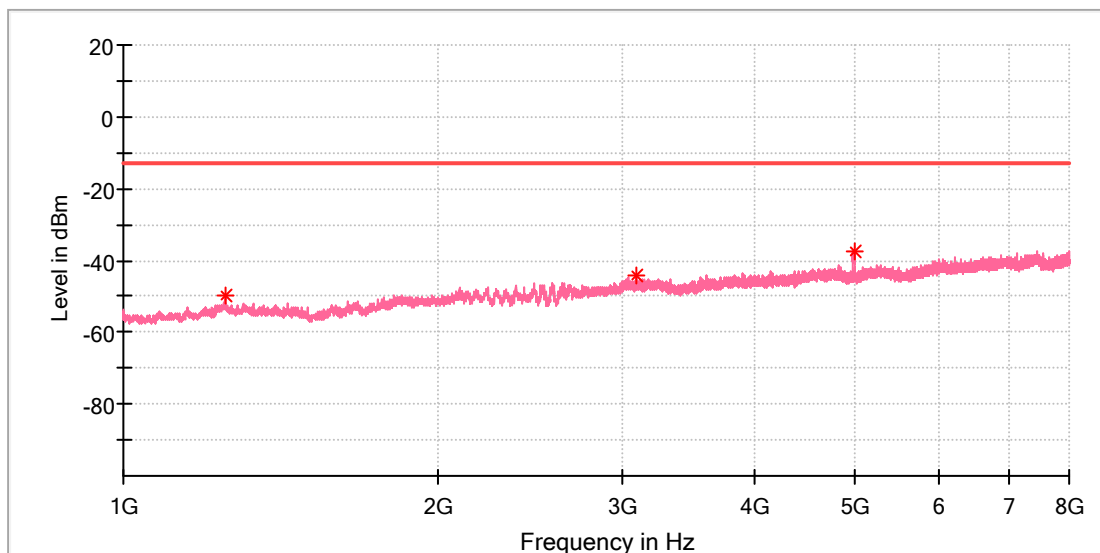


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1250.000000	-52.95	-13.00	39.95	150.0	H	155.0	-92.9
3690.000000	-45.69	-13.00	32.69	150.0	H	19.0	-85.5
4999.500000	-37.17	-13.00	24.17	150.0	H	273.0	-83.6

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 30_10M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

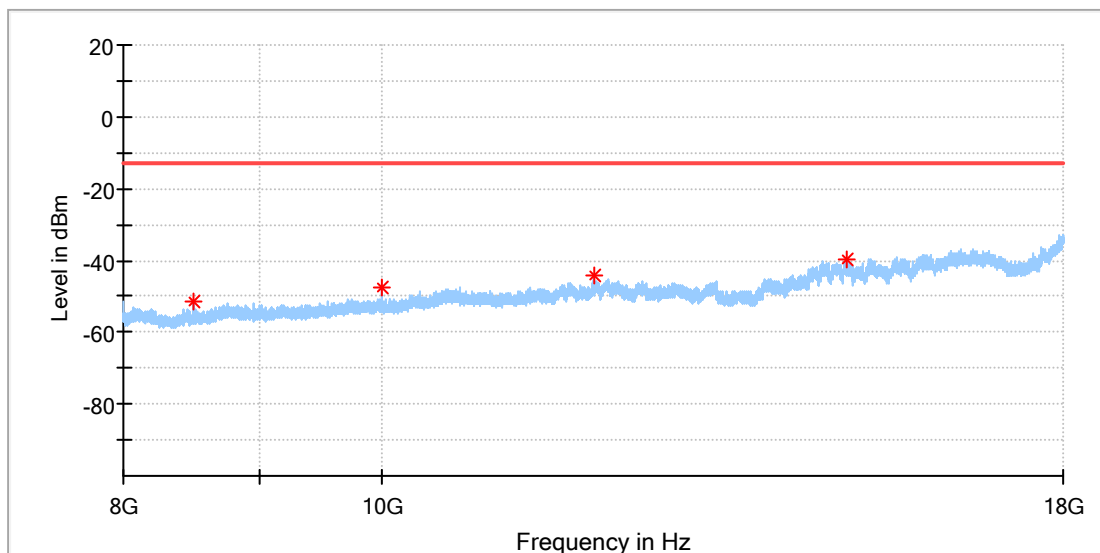


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1250.500000	-49.95	-13.00	36.95	150.0	V	240.0	-90.1
3083.500000	-44.02	-13.00	31.02	150.0	V	95.0	-83.6
4995.500000	-37.59	-13.00	24.59	150.0	V	356.0	-81.6

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 30_10M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

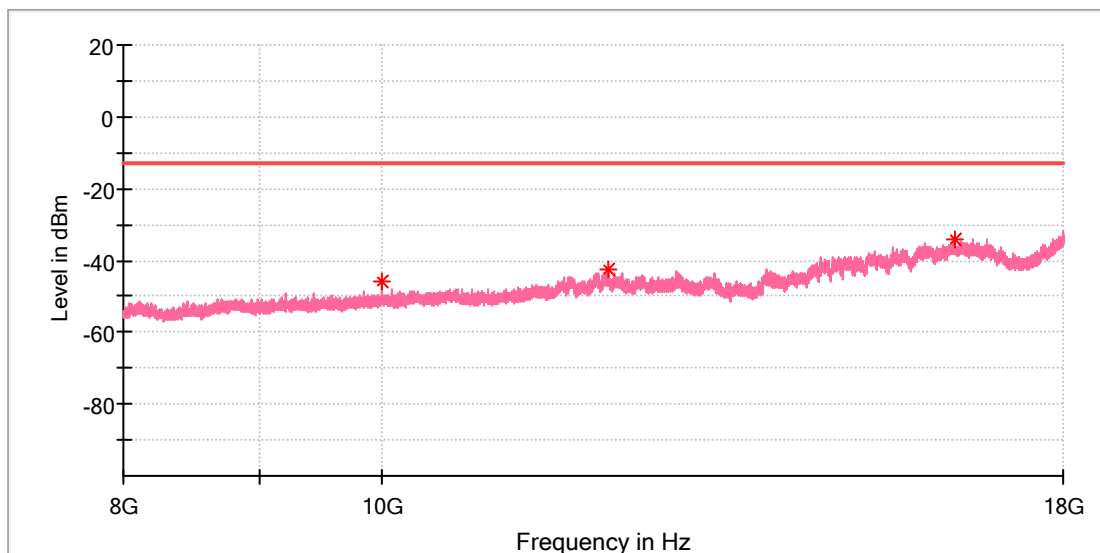


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8500.000000	-51.45	-13.00	38.45	150.0	H	103.0	-89.1
9999.500000	-47.45	-13.00	34.45	150.0	H	38.0	-85.0
12000.000000	-44.42	-13.00	31.42	150.0	H	251.0	-80.7
14926.000000	-39.50	-13.00	26.50	150.0	H	251.0	-75.9

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 30_10M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

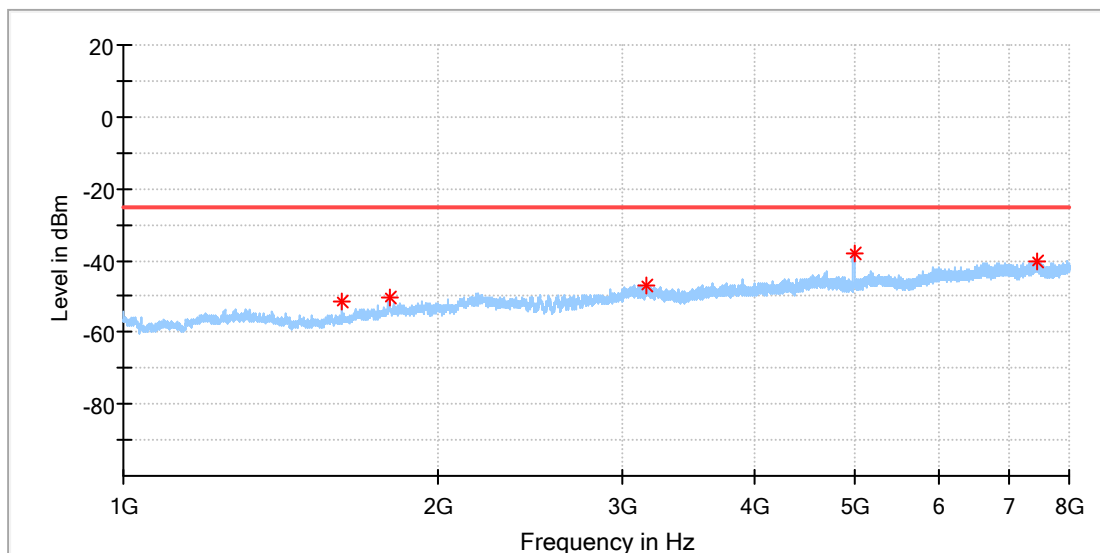


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
10000.000000	-45.93	-13.00	32.93	150.0	V	140.0	-83.5
12166.000000	-42.52	-13.00	29.52	150.0	V	41.0	-78.5
16394.000000	-34.32	-13.00	21.32	150.0	V	220.0	-70.8

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 41_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

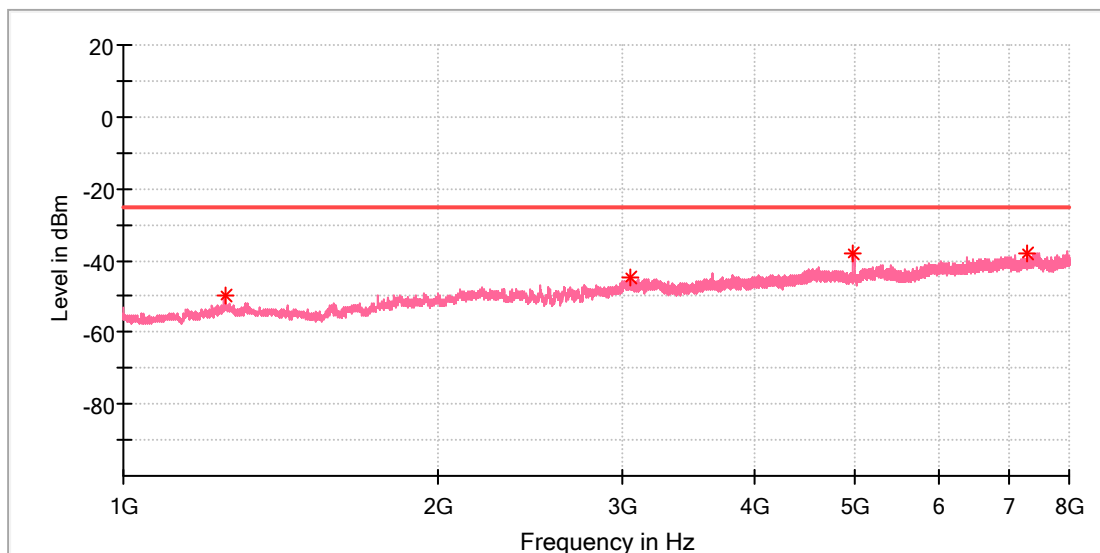


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1618.500000	-51.51	-25.00	26.51	150.0	H	214.0	-93.5
1795.000000	-50.38	-25.00	25.38	150.0	H	235.0	-91.0
3153.500000	-47.13	-25.00	22.13	150.0	H	342.0	-85.2
4999.500000	-37.77	-25.00	12.77	150.0	H	68.0	-83.6
7457.000000	-40.02	-25.00	15.02	150.0	H	326.0	-77.6

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 41_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

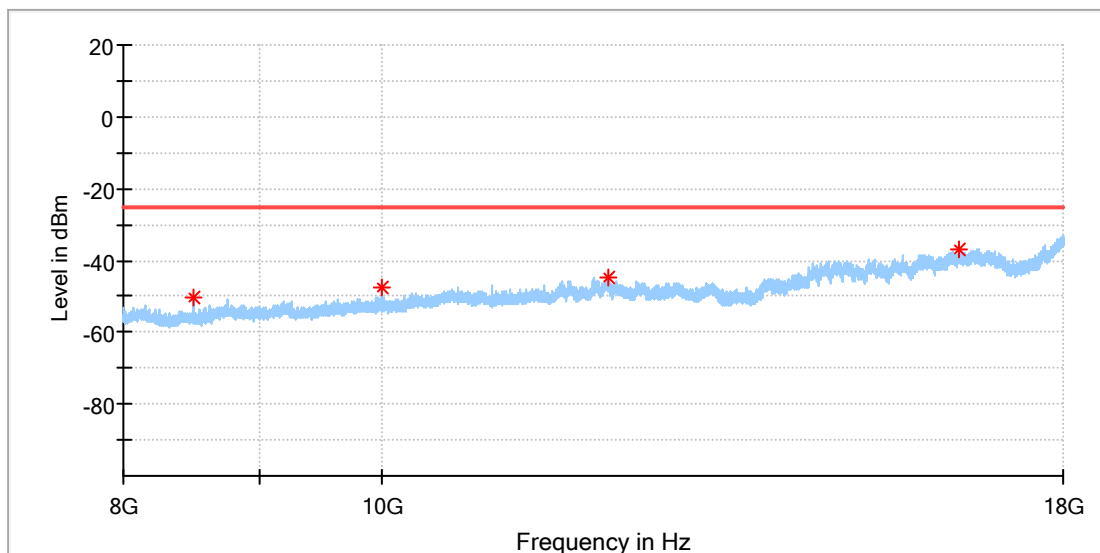


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	-49.71	-25.00	24.71	150.0	V	245.0	-90.1
3042.000000	-44.53	-25.00	19.53	150.0	V	215.0	-83.2
4978.000000	-38.11	-25.00	13.11	150.0	V	355.0	-81.5
7306.000000	-37.99	-25.00	12.99	150.0	V	48.0	-76.5

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 41_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

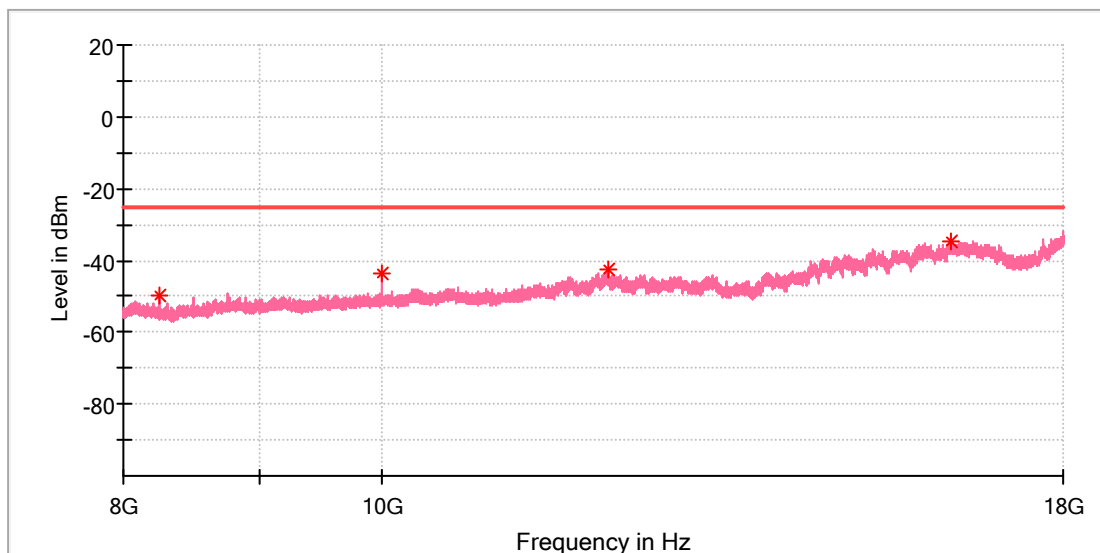


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8499.500000	-50.45	-25.00	25.45	150.0	H	195.0	-89.1
10000.000000	-47.75	-25.00	22.75	150.0	H	195.0	-85.0
12161.000000	-44.52	-25.00	19.52	150.0	H	2.0	-80.1
16443.000000	-37.12	-25.00	12.12	150.0	H	215.0	-74.1

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 41_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

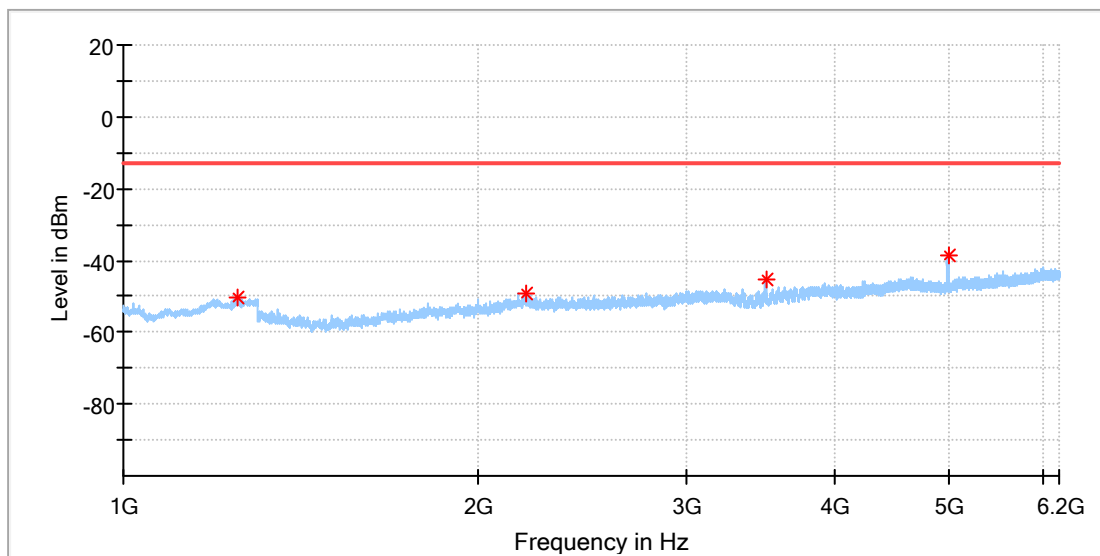


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8249.000000	-49.97	-25.00	24.97	150.0	V	101.0	-87.0
10000.000000	-43.68	-25.00	18.68	150.0	V	142.0	-83.5
12155.500000	-42.24	-25.00	17.24	150.0	V	128.0	-77.9
16352.500000	-34.52	-25.00	9.52	150.0	V	190.0	-70.5

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	LTE Band 42_5M_QPSK_Mid channel
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	-50.24	-13.00	37.24	150.0	H	119.0	-93.7
2194.000000	-49.13	-13.00	36.13	150.0	H	303.0	-87.6
3498.000000	-45.25	-13.00	32.25	150.0	H	171.0	-86.7
4999.500000	-38.62	-13.00	25.62	150.0	H	274.0	-84.2

Test Results of Radiated Emissions in Simultaneous Mode

Besides with the LTE module, this device also contains the certificated single modules for wireless functions SRD (915MHz Band), Lora and a transmitter for Wi-Fi & Bluetooth

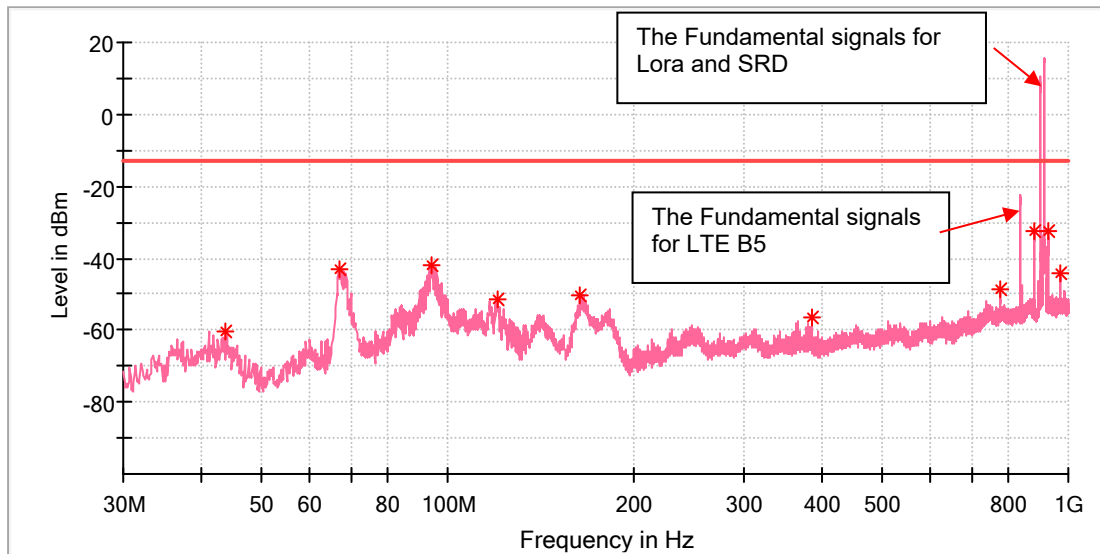
As per KDB 996369 D01 section 7 and KDB 996369 D02 (Question 12), the EMC testing of the Module in simultaneous transmission operations were performed while integrated into the host.

There is no emissions with increased amplitude and/or on different frequencies are detected in simultaneous transmissions compared to what is reported in the modular grant (that refers to single-transmitter operations testing), the test results for worst-cases listed as below:

Mode: Bluetooth + Lora (915MHz band) +915MHz band SRD+LTE B5

EUT Information

EUT Name:	General-Purpose Robot
Model:	AgiBot A2
Test Mode:	BT+LTE+802.11ah+Lora
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

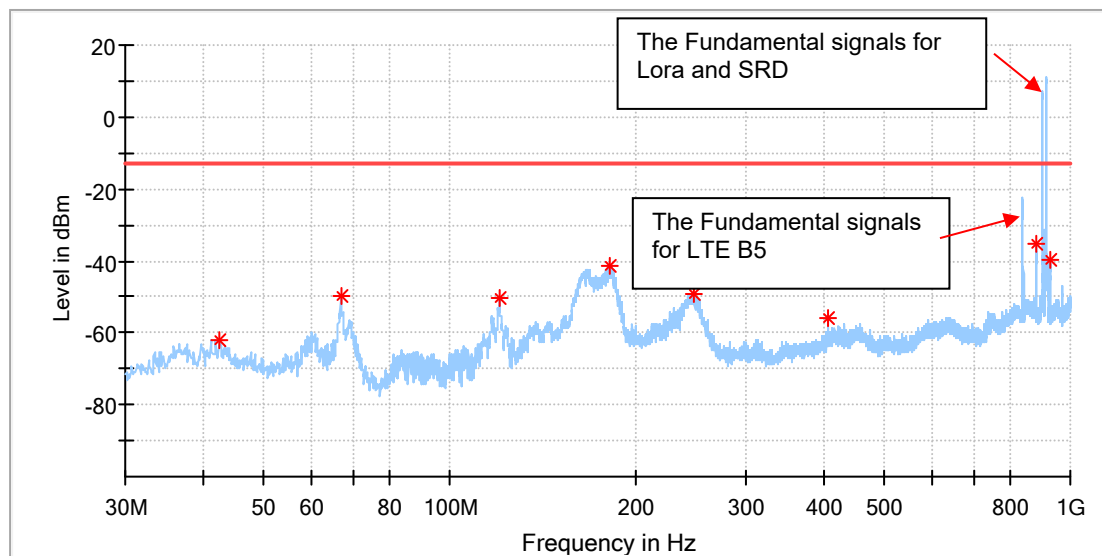


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
43.943750	-60.47	-13.00	47.47	100.0	V	87.0	-124.5
66.738750	-43.08	-13.00	30.08	100.0	V	15.0	-122.7
94.020000	-42.05	-13.00	29.05	100.0	V	208.0	-100.1
120.452500	-51.56	-13.00	38.56	100.0	V	249.0	-115.4
163.496250	-50.24	-13.00	37.24	100.0	V	212.0	-120.3
385.990000	-56.73	-13.00	43.73	100.0	V	112.0	-111.4
775.323750	-48.78	-13.00	35.78	100.0	V	203.0	-102.3
881.660000	-32.68	-13.00	19.68	100.0	V	285.0	-102.4
926.886250	-32.72	-13.00	19.72	100.0	V	21.0	-100.0
967.383750	-44.39	-13.00	31.39	100.0	V	315.0	-100.7

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	BT+LTE+802.11ah+Lora
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

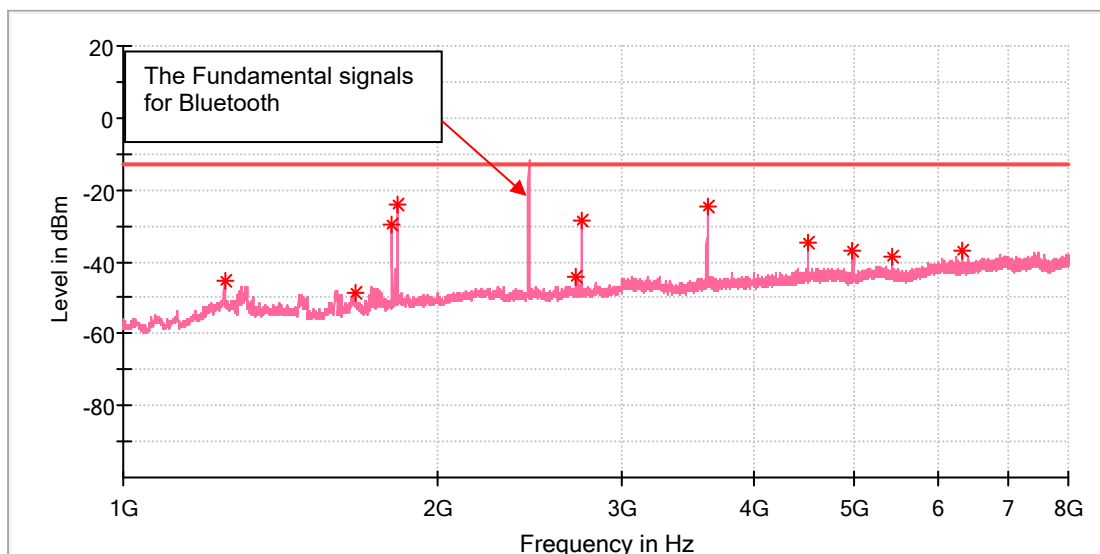


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.610000	-61.91	-13.00	48.91	100.0	H	282.0	-112.8
66.738750	-49.84	-13.00	36.84	100.0	H	41.0	-120.6
120.452500	-50.58	-13.00	37.58	100.0	H	212.0	-122.9
180.835000	-41.48	-13.00	28.48	100.0	H	246.0	-118.1
246.673750	-49.14	-13.00	36.14	100.0	H	294.0	-110.0
406.845000	-56.03	-13.00	43.03	100.0	H	103.0	-109.5
881.175000	-35.47	-13.00	22.47	100.0	H	185.0	-102.0
926.037500	-39.73	-13.00	26.73	100.0	H	133.0	-102.5

EUT Information

EUT Name:	General-Purpose Robot
Model:	A2
Test Mode:	BT+LTE+802.11ah+Lora
Order No/Sample No:	168541455/A003981953-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

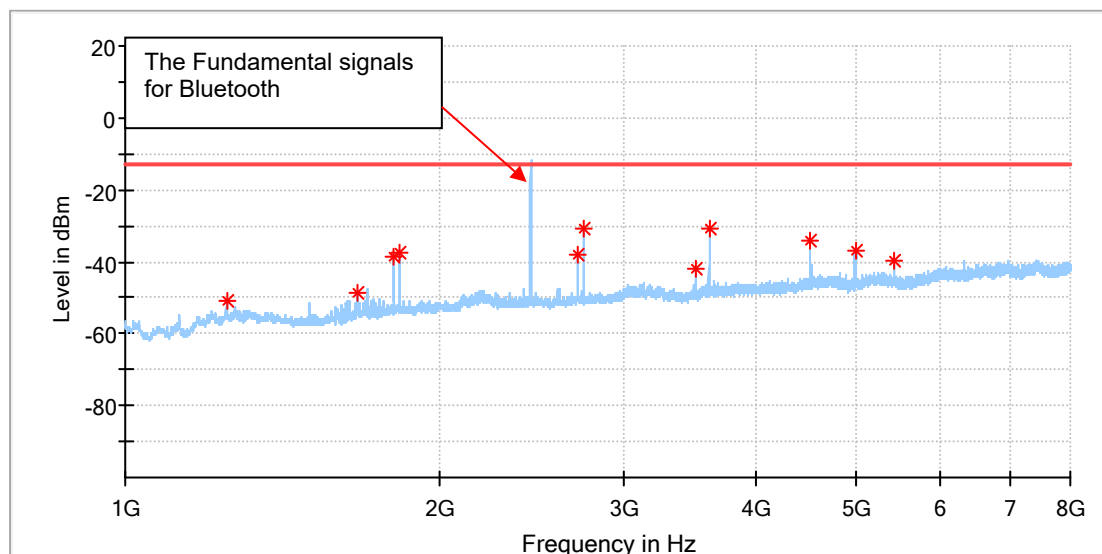


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	-45.06	-13.00	32.06	150.0	V	16.0	-90.1
1667.000000	-48.48	-13.00	35.48	150.0	V	152.0	-90.3
1807.500000	-29.70	-13.00	16.71	150.0	V	298.0	-89.0
1830.000000	-23.89	-13.00	10.89	150.0	V	347.0	-88.1
2711.000000	-44.41	-13.00	31.41	150.0	V	335.0	-86.3
2746.000000	-28.46	-13.00	15.46	150.0	V	353.0	-86.0
3614.000000	-24.86	-13.00	11.86	150.0	V	313.0	-83.6
4516.500000	-34.95	-13.00	21.95	150.0	V	263.0	-81.3
4979.500000	-36.99	-13.00	23.99	150.0	V	213.0	-81.5
5421.500000	-38.56	-13.00	25.56	150.0	V	191.0	-80.5
6324.000000	-36.77	-13.00	23.77	150.0	V	213.0	-78.6

EUT Information

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Test Mode:	BT+LTE+802.11ah+Lora
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Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

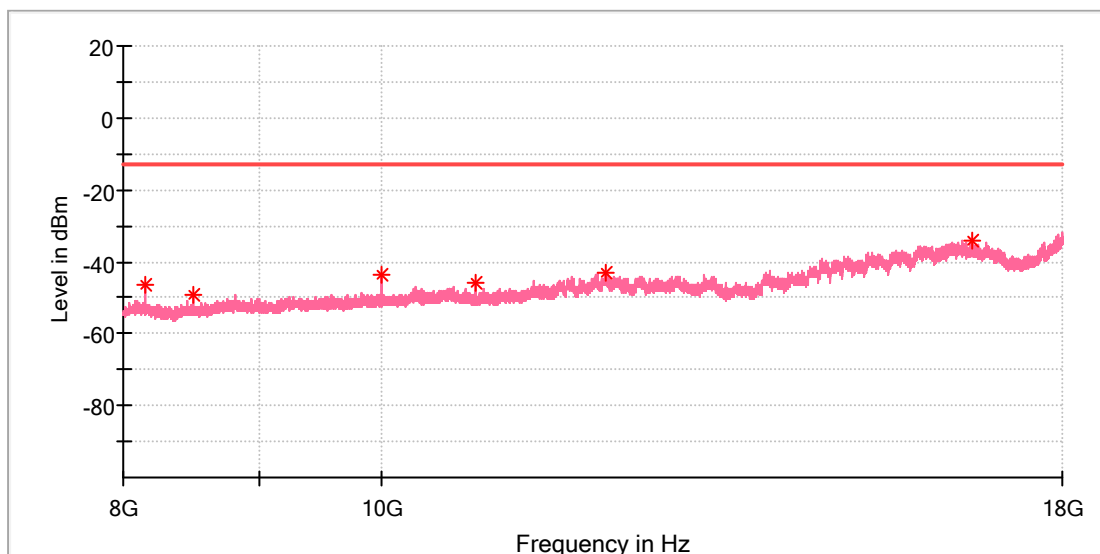


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1250.000000	-50.66	-13.00	37.66	150.0	H	256.0	-92.9
1668.000000	-48.84	-13.00	35.84	150.0	H	81.0	-92.4
1807.000000	-38.67	-13.00	25.67	150.0	H	182.0	-90.8
1829.500000	-37.32	-13.00	24.32	150.0	H	31.0	-90.6
2710.500000	-37.86	-13.00	24.86	150.0	H	308.0	-88.2
2745.000000	-30.73	-13.00	17.73	150.0	H	44.0	-87.9
3505.000000	-42.14	-13.00	29.14	150.0	H	316.0	-86.2
3614.500000	-30.61	-13.00	17.61	150.0	H	316.0	-85.7
4517.000000	-33.91	-13.00	20.91	150.0	H	275.0	-83.3
4995.500000	-37.17	-13.00	24.17	150.0	H	79.0	-83.6
5421.500000	-39.45	-13.00	26.45	150.0	H	225.0	-82.3

EUT Information

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Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

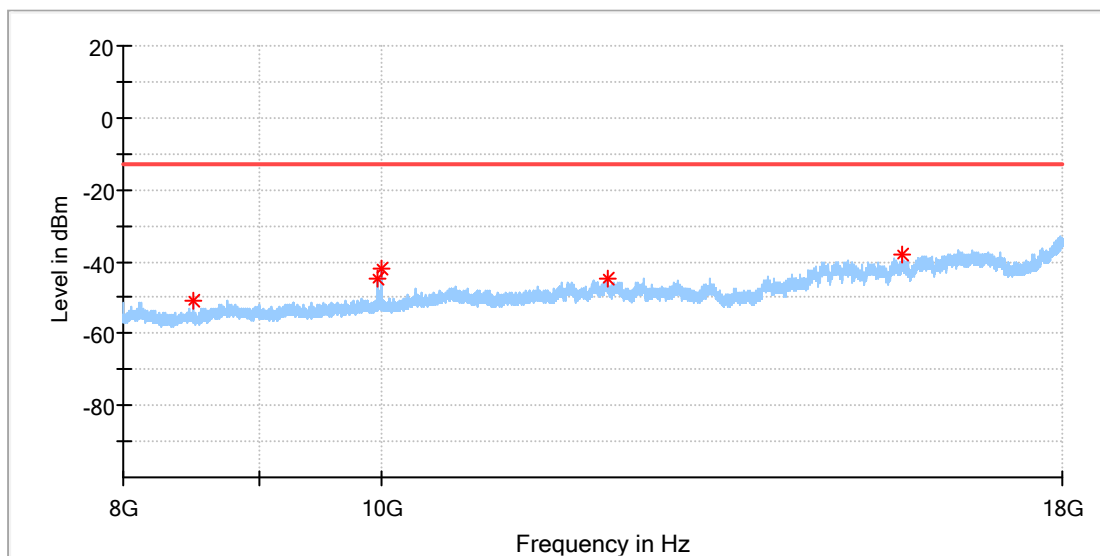


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8154.500000	-46.31	-13.00	33.31	150.0	V	180.0	-86.6
8500.000000	-49.18	-13.00	36.18	150.0	V	208.0	-87.0
10000.000000	-43.58	-13.00	30.58	150.0	V	180.0	-83.5
10842.000000	-45.76	-13.00	32.76	150.0	V	256.0	-82.5
12127.000000	-43.27	-13.00	30.27	150.0	V	311.0	-78.2
16655.000000	-34.00	-13.00	21.00	150.0	V	333.0	-70.9

EUT Information

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Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8500.000000	-50.74	-13.00	37.74	150.0	H	169.0	-89.1
9966.000000	-44.68	-13.00	31.68	150.0	H	0.0	-85.1
9999.500000	-41.68	-13.00	28.68	150.0	H	175.0	-85.0
12150.000000	-45.00	-13.00	32.00	150.0	H	262.0	-79.6
15680.500000	-38.08	-13.00	25.08	150.0	H	107.0	-77.3