

Page 1 of 36 FCC ID: 2BBA6-K75PRO

FCC TEST REPORT

Report No.: LCSA030323015EC

FOR

Kezhi(HuiZhou) Electronic Technology Co., Ltd.

Mechanical keyboard

Test Model: K75Pro

Prepared for : Kezhi(HuiZhou) Electronic Technology Co., Ltd.

Address Main building No.8, Minying 1st road, Yuanzhou Town, Boluo County,

Huizhou City, Guangdong Province, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd

Address 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

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Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test sample : May 25, 2023

Number of tested samples : 2

Sample No. : A030323015-1, A030323015-2

Sample number : Prototype

Date of Test : May 25, 2023 ~ June 01, 2023

Date of Report : June 01, 2023



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FCC ID: 2BBA6-K75PRO

FCC TEST REPORT

FCC CFR 47 PART 15 C (15.249)

Report Reference No.: LCSA030323015EC

Date of Issue.....: June 01, 2023

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address...... 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

Shajing Street, Baoan District, Shenzhen, 518000, China

Testing Location/ Procedure Partial application of Harmonised standards

Other standard testing method

Applicant's Name: Kezhi(HuiZhou) Electronic Technology Co., Ltd.

Address.....: Main building No.8, Minying 1st road, Yuanzhou Town, Boluo

County, Huizhou City, Guangdong Province, China

Test Specification

Standard : FCC CFR 47 PART 15 C(15.249) / ANSI C63.10: 2013

Test Report Form No.....: LCSEMC-1.0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test Item Description.....: Mechanical keyboard

Trade Mark:





Test Model: K75Pro

Ratings.....: Input: DC 5V, 200mA

DC 3.7V by Rechargeable Li-ion Battery, 3750mAh

Result: Positive

Compiled by:

Supervised by:

Approved by:

Report No.: LCSA030323015EC

Kay Hu/ Administrator

Cary Luo/ Technique principal

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.





FCC -- TEST REPORT

Took Domont No	LCSA030323015EC	June 01, 2023
Test Report No. :	LC3A030323013EC	Date of issue

Test Model..... : K75Pro : Mechanical keyboard : Kezhi(HuiZhou) Electronic Technology Co., Ltd. Applicant..... Main building No.8, Minying 1st road, Yuanzhou Town, Boluo Address..... County, Huizhou City, Guangdong Province, China Telephone..... Fax..... Manufacturer..... : Kezhi(HuiZhou) Electronic Technology Co., Ltd. Main building No.8, Minying 1st road, Yuanzhou Town, Boluo · County, Huizhou City, Guangdong Province, China Telephone..... Fax..... : Kezhi(HuiZhou) Electronic Technology Co., Ltd. Factory..... Main building No.8, Minying 1st road, Yuanzhou Town, Boluo Address..... County, Huizhou City, Guangdong Province, China Telephone..... Fax.....

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





FCC ID: 2BBA6-K75PRO

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	June 01, 2023	Initial Issue	

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化型 立洲检测股份



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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : Mechanical keyboard

Test Model : K75Pro

Power Supply : Input: DC 5V, 200mA

DC 3.7V by Rechargeable Li-ion Battery, 3750mAh

Hardware Version : K75PRO

Software Version : K916 RK863-D 2.0

Bluetooth :

Frequency Range : 2402MHz~2480MHz

Channel Number : 79 channels for Bluetooth V5.0 (DSS)

40 channels for Bluetooth V5.0 (DTS)

Channel Spacing : 1MHz for Bluetooth V5.0 (DSS)

2MHz for Bluetooth V5.0 (DTS)

Modulation Type : GFSK, π/4-DQPSK, 8-DPSK for Bluetooth V5.0 (DSS)

GFSK for Bluetooth V5.0 (DTS)

Bluetooth Version : V5.0

Antenna Description : PCB Antenna, 2.34dBi(Max.)

2.4G

Frequency Range : 2403MHz-2480MHz

Channel Number : 16

Modulation Type : GFSK

Antenna Description : PCB Antenna, 2.34dBi(max.)



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1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Lenovo	PC	TP00094A		FCC
SHENZHEN TIANYIN	Dower Adenter	TPA-4605020		FCC
ELECTRONICS CO., LTD	Power Adapter	0UU		FCC

Note: Auxiliary equipment is provided by the laboratory.

1.3. External I/O

I/O Port Description Quantity		Cable
Type-C Port	2	N/A
USB Port	1	N/A

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16-4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.



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1.6. Measurement Uncertainty

			45.17	
Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	•	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)
Output power	:	1GHz-40GHz	±0.57dB	(1)
Occupied Channel Bandwidth	:	1GHz-40GHz	±5%	(1)
Conducted RF Spurious Emission	:	9kHz-40GHz	±1.80dB	(1)
Emissions in Restricted Bands	:	1GHz-40GHz	±2.47dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Description of Test Modes

Operates in the unlicensed ISM Band at 2.4GHz. With basic data rate feature, the data rates can be up to 1 Mb/s by modulating the RF carrier using GFSK techniques. The EUT works in the X-axis, Y-axis, Z-axis. The following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)		
	2403	/		
GFSK	2441	/		
	2480	/		
For Conducted Emission				
Test Mode	•	TX Mode		
For Radiated Emission				
Test Mode	· 测度力	TX Mode		

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX.



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Channel List:

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2403	9	2445
2	2409	10	2450
3	2414	11	2455
4	2419	12	2461
5	2424	13	2465
6	2429	14	2470
Till Tax 7 ng Lab	2435	Testing Lab 15	2475
8	2441	16	2480

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2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10: 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013



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3. CONNECTION DIAGRAM OF TEST SYSTEM

3.1. Justification

The system was configured for testing in a continuous transmit condition. Continuous transmitting was pre-programmed. It'll keep transmitting with modulated signal at the lowest channel by installing the batter. When press the "up" button, it'll move to the next channel. Repeat press "up" button, it'll transmitting at each of the channel used.

3.2. EUT Exercise Software

Press the corresponding button, and change the channel.

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.



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4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C §15.249				
FCC Rules	Description Of Test	Result		
§15.203	Antenna Requirement	Compliant		
§15.207(a)	Power Line Conducted Emissions	Compliant		
§15.205(a), §15.209(a), §15.249(a), §15.249(c)	Radiated Emissions Measurement	Compliant		
§15.249 (d)	Band Edges Measurement	Compliant		
§15.215(c)	20 dB Bandwidth	Compliant		
§15.215(c)	20 dB Bandwidth	Compliant		

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5. ANTENNA REQUIREMENT

5.1. Standard Applicable

According to § 15.203 and RSS-Gen, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.2. Antenna Connected Construction

The EUT use Ceramic Antenna and maximum antenna gain is 2.34dBi, antenna cannot replacement, meets FCC Part §15.203 antenna requirement. Please see EUT photo for details.

5.3. Results

Compliance



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6. POWER LINE CONDUCTED EMISSIONS

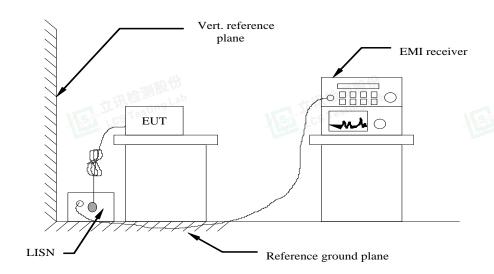
6.1. Standard Applicable

According to §15.207 (a) & RSS-Gen § 8.8: For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range	Limits (dBµV)		
(MHz)	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

^{*} Decreasing linearly with the logarithm of the frequency

6.2. Block Diagram of Test Setup



6.3. Test Results

PASS.

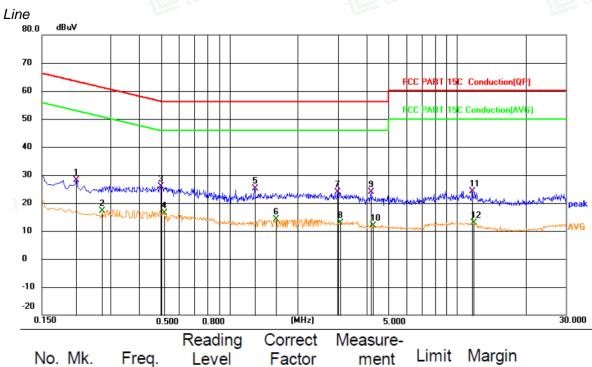
The test data please refer to following page.

Temperature	23.5℃	Humidity	53.6%
Test Engineer	Joker Hu		



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AC Conducted Emission of Adapter @ AC 120V/60Hz @ GFSK (High Channel) (worst case)



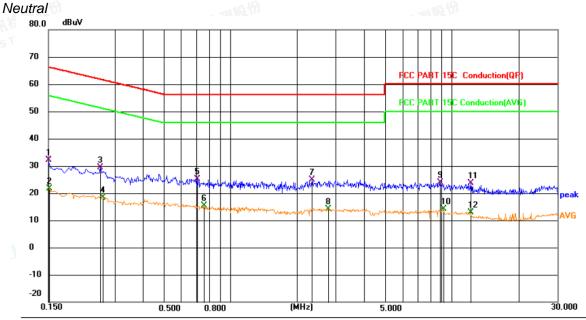
	No. N	Иk.	Freq.	Level	Factor	ment	Limit	Margin	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.2127	8.43	19.63	28.06	63.10	-35.04	QP
	2		0.2757	-2.50	19.63	17.13	50.94	-33.81	AVG
-	3		0.4993	6.15	19.64	25.79	56.01	-30.22	QP
	4 '	k	0.5181	-3.37	19.65	16.28	46.00	-29.72	AVG
	5		1.2890	5.38	19.66	25.04	56.00	-30.96	QP
-	6		1.6019	-5.53	19.67	14.14	46.00	-31.86	AVG
_	7		2.9775	4.26	19.68	23.94	56.00	-32.06	QP
	8		3.0737	-6.84	19.70	12.86	46.00	-33.14	AVG
	9		4.1795	4.23	19.70	23.93	56.00	-32.07	QP
-	10		4.2918	-7.91	19.70	11.79	46.00	-34.21	AVG
-	11		11.6207	4.29	19.84	24.13	60.00	-35.87	QP
-	12		11.8696	-7.07	19.84	12.77	50.00	-37.23	AVG
-									



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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1500	12.40	19.63	32.03	66.00	-33.97	QP
2		0.1514	1.88	19.63	21.51	55.92	-34.41	AVG
3		0.2580	9.66	19.63	29.29	61.50	-32.21	QP
4		0.2644	-1.34	19.63	18.29	51.29	-33.00	AVG
5		0.7078	5.54	19.65	25.19	56.00	-30.81	QP
6	*	0.7620	-4.17	19.64	15.47	46.00	-30.53	AVG
7		2.3370	5.23	19.68	24.91	56.00	-31.09	QP
8		2.7690	-5.46	19.68	14.22	46.00	-31.78	AVG
9		8.8529	4.05	19.81	23.86	60.00	-36.14	QP
10		9.1319	-5.80	19.82	14.02	50.00	-35.98	AVG
11		12.2506	3.88	19.84	23.72	60.00	-36.28	QP
12		12.2506	-7.02	19.84	12.82	50.00	-37.18	AVG

***Note: Pre-scan all modes and recorded the worst case results in this report GFSK (High Channel).

Measurement= Reading + Correct Factor, Margin = Measurement – Limit.

Correct Factor=Lisn Factor+Cable Factor



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7. RADIATED EMISSION MEASUREMENT

7.1. Standard Applicable

According to FCC § 15.249: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) and 15.249 limit in the table below has to be followed.

Fundamental	Field Strength of fundamental	Field Strength of harmonics		
Frequency	(millivolts/meter)	(microvolts/meter)		
902-928MHz	50	500		
2400-2483.5MHz	50	500		
5725-5875MHz	50	500		
24 0-24 25GHz	250	2500		

Frequencies	Field Strength	Measurement Distance			
(MHz)	(microvolts/meter)	(meters)			
0.009~0.490	2400/F(KHz)	300			
0.490~1.705	24000/F(KHz)	30			
1.705~30.0	30	30			
30~88	100	3			
88~216	150	3			
216~960	200	sting Law 3			
Above 960	500	3			

According to RSS-210 B.10:

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

7.2. Instruments Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average



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Receiver Parameter	Setting
Attenuation	Auto CST
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

7.3. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 1.0 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- --- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



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2) Sequence of testing 30 MHz to 1 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



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3) Sequence of testing 1 GHz to 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



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4) Sequence of testing above 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

Premeasurement:

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

Final measurement:

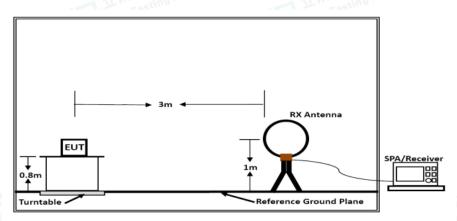
- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



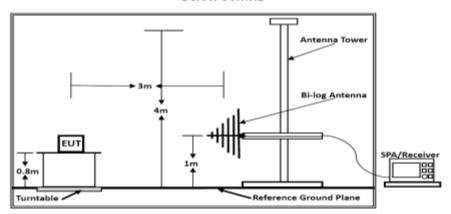
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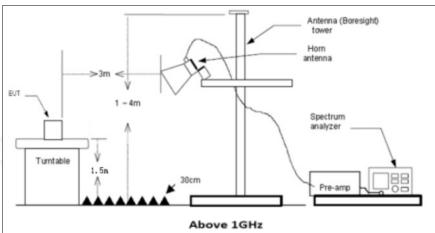
7.4. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



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7.6. Test Results of Radiated Emissions (9 KHz~30 MHz)

· ·			
Temperature	23.8℃	Humidity	52.1%
Test Engineer	Joker Hu		

Freq.	Level	Over Limit	Over Limit	Remark	
(MHz)	(dBuV)	(dB)	(dBuV)		
-	-	-	-	See Note	

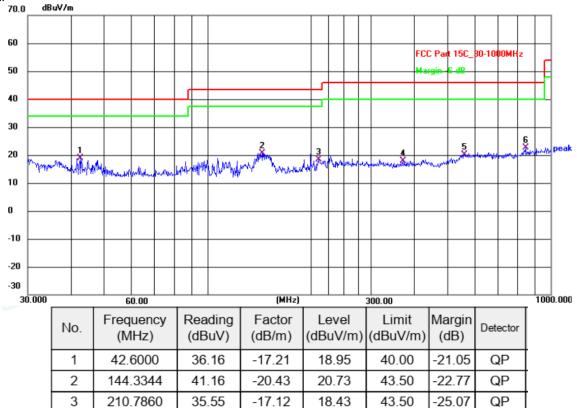
Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

7.7. Test Results of Radiated Emissions (30 MHz – 1000 MHz)

Temperature	23.8℃	Humidity	52.1%		
Test Engineer	Joker Hu				







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372.0045

560.6928

845.0877

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17.90

20.23

22.57

46.00

46.00

46.00

-28.10

-25.77

-23.43

QΡ

QΡ

QP

-14.75

-11.40

-8.99

32.65

31.63

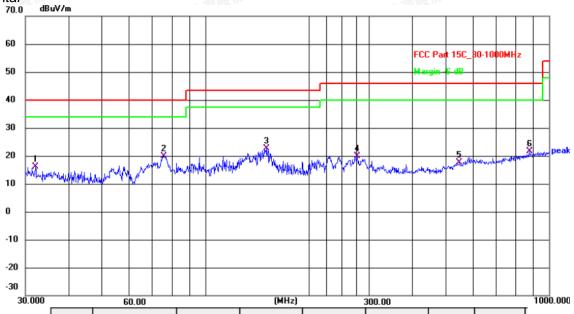
31.56

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Horizontal



		00.00			() 300.00					
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
	1	32.0667	34.35	-18.17	16.18	40.00	-23.82	QP		
	2	75.7112	39.61	-19.71	19.90	40.00	-20.10	QP		
I	3	150.5377	42.51	-19.82	22.69	43.50	-20.81	QP		
ķ	4	277.0935	35.22	-15.39	19.83	46.00	-26.17	QP		
	5	549.0193	29.46	-11.83	17.63	46.00	-28.37	QP		
	6	878.3214	30.18	-8.64	21.54	46.00	-24.46	QP		

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report GFSK (High Channel).
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Level = Reading + Factor, Margin = Level Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor



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Report No.: LCSA030323015EC

7.8. Results for Radiated Emissions (1 - 26 GHz)

2403 MHz

	Field Strength of Fundamental (TX-2403 MHz)								
Frequency	Pol.	Measure Result	Measure Result	Peak Limit	AVG Limit	Result			
(MHz)		(PK, dBuV/m)	(AVG, dBuV/m)	(dBuV/m)	(dBuV/m)				
2403	Н	83.04	70.51	114	94	Pass			
2403	V	83.61	70.53	114	94	Pass			

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4806.00	55.10	33.06	35.04	3.94	57.06	74.00	-16.94	Peak	Horizontal
4806.00	44.07	33.06	35.04	3.94	46.03	54.00	-7.97	Average	Horizontal
4806.00	57.08	33.06	35.04	3.94	59.04	74.00	-14.96	Peak	Vertical
4806.00	43.14	33.06	35.04	3.94	45.10	54.00	-8.90	Average	Vertical

2441 MHz

	Field Strength of Fundamental (TX-2403 MHz)							
Frequency Pol. Measure Result Measure Result Peak Limit AVG Limit Result								
(MHz) (PK, dBuV/m) (AVG, dBuV/m) (dBuV/m) (dBuV/m)								
2441	Н	81.46	70.36	114	94	Pass		
2441	V	81.17	70.43	114	94	Pass		

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4882.00	54.88	33.16	35.15	3.96	56.85	74.00	-17.15	Peak	Horizontal
4882.00	43.33	33.16	35.15	3.96	45.30	54.00	-8.70	Average	Horizontal
4882.00	60.22	33.16	35.15	3.96	62.19	74.00	-11.81	Peak	Vertical
4882.00	45.63	33.16	35.15	3.96	47.60	54.00	-6.40	Average	Vertical

2480 MHz

	Field Strength of Fundamental (TX-2403 MHz)							
Frequency Pol. Measure Result Measure Result Peak Limit AVG Limit Result								
(MHz)		(PK, dBuV/m)	(AVG, dBuV/m)	(dBuV/m)	(dBuV/m)			
2480	HIR	86.27	70.96	114	94	Pass		
2480	V	84.37	70.48	114	94	Pass		

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	59.71	33.26	35.14	3.98	61.81	74.00	-12.19	Peak	Horizontal
4960.00	44.97	33.26	35.14	3.98	47.07	54.00	-6.93	Average	Horizontal
4960.00	53.89	33.26	35.14	3.98	55.99	74.00	-18.01	Peak	Vertical
4960.00	44.93	33.26	35.14	3.98	47.03	54.00	-6.97	Average	Vertical

Notes:

- 1). Measuring frequencies from 9 KHz 10th harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30 MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz 10th harmonic (ex. 26GHz) were made



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with an instrument using Peak detector mode.

3). 18~25 GHz at least have 20dB margin. No recording in the test report.

4). Measured Level = Reading Level + Factor, Margin = Level - Limit,

Factor = Antenna Factor + Cable Loss - Preamp Factor























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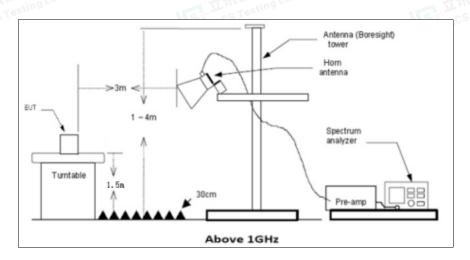
8. RESULTS FOR BAND EDGE TESTING

8.1. Standard Applicable

According to FCC §15.249 (d): Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to RSS-210 B.10 (b): Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

8.2. Test Setup Layout



8.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

8.4. Test Procedures

3) Sequence of testing 1 GHz to 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.



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Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

8.5. Measuring Instruments and Setting

		The state of the s	
Temperature	23.5℃	Humidity	52.1%
Test Engineer	Joker Hu		

PASS

Remark:

- 1. The other emission levels were very low against the limit.
- 2. The average measurement was not performed when the peak measured data under the limit of average detection.
- Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=330Hz/Sweep time=Auto/Detector=Peak;
- 4. Please refer to following test plots;



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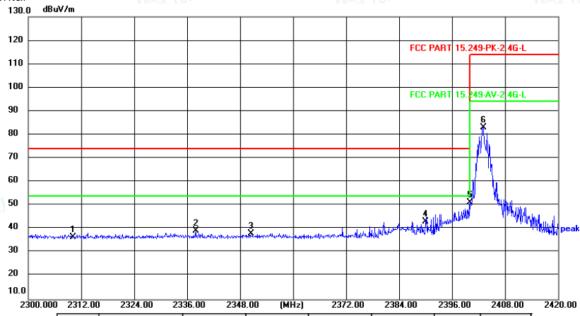
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Channel 1/2403 MHz

Horizontal



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
	1	2310.000	48.55	-12.02	36.53	74.00	-37.47	peak
(c	2	2337.920	51.14	-11.91	39.23	74.00	-34.77	peak
	3	2350.400	49.81	-11.87	37.94	74.00	-36.06	peak
	4	2390.000	54.74	-11.73	43.01	74.00	-30.99	peak
	5	2400.000	62.90	-11.70	51.20	74.00	-22.80	peak
	6	2403.000	94.73	-11.69	83.04	114.00	-30.96	peak

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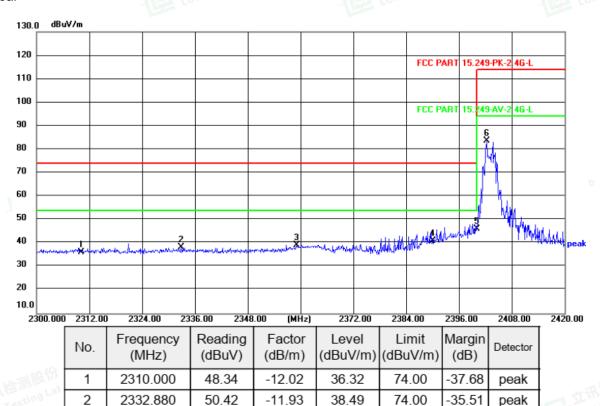


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Channel 1 / 2403 MHz

Vertical



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3

4

5

6

2359.040

2390.000

2400.000

2402.360

51.24

52.82

57.93

95.30

TH TH THE THE LAB

-11.84

-11.73

-11.70

-11.69

39.40

41.09

46.23

83.61

74.00

74.00

74.00

114.00

-34.60

-32.91

-27.77

-30.39

peak

peak

peak

peak



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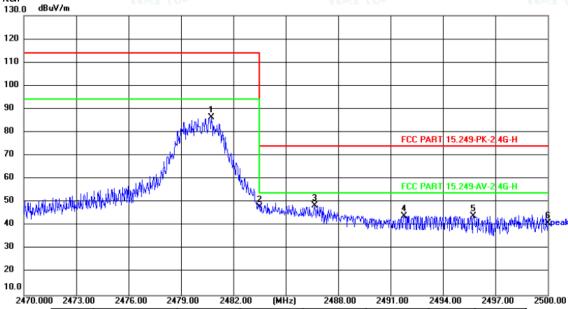


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Channel 16/2480 MHz





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	2480.740	97.69	-11.42	86.27	114.00	-27.73	peak	
2	2483.500	59.48	-11.40	48.08	74.00	-25.92	peak	证检测股 ^价
3	2486.650	59.89	-11.39	48.50	74.00	-25.50	peak	Tin 拉洲拉洲 Lab
4	2491.780	55.39	-11.37	44.02	74.00	-29.98	peak	100
5	2495.740	55.49	-11.36	44.13	74.00	-29.87	peak	
6	2500.000	52.50	-11.34	41.16	74.00	-32.84	peak	

Tin检测股份 LCS Testing Lab

TH拉测股份 LOS Testing Lab





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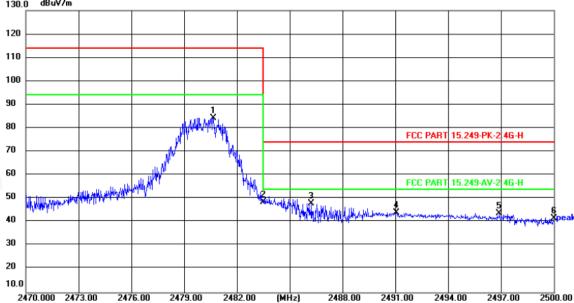


Channel 16 / 2480 MHz

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Vertical 130.0 dBuV/m 120



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
10	1	2480.650	95.79	-11.42	84.37	114.00	-29.63	peak
	2	2483.500	59.98	-11.40	48.58	74.00	-25.42	peak
	3	2486.230	59.32	-11.39	47.93	74.00	-26.07	peak
	4	2491.060	55.52	-11.37	44.15	74.00	-29.85	peak
Ī	5	2496.910	55.12	-11.35	43.77	74.00	-30.23	peak
	6	2500.000	52.85	-11.34	41.51	74.00	-32.49	peak





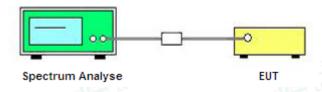
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9. 20 DB BANDWIDTH MEASUREMENT

9.1. Standard Applicable

§15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

9.2. Block Diagram of Test Setup



9.3. Test Procedure

Use the following spectrum analyzer settings:

Span = 8MHz

RBW = 390 kHz

VBW = 1200 KHz

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).



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9.4. Test Results

Temperature	23.5℃	Humidity	52.1%
Test Engineer	Joker Hu		

Test Resu	Test Result of 20dB Bandwidth Measurement						
Test Frequency	20dB Bandwidth	Limit					
(MHz)	(MHz)	(MHz)					
2403	2.807	Non-Specified					
2441	2.637	Non-Specified					
2480	2.719	Non-Specified					

Remark:

- 1. Test results including cable loss;
- 2. Please refer following test plots;





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10. LIST OF MEASURING EQUIPMENT

					CTEST	
Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date	
MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022-10-29	2023-10-28	
DC Power Supply	Agilent	E3642A	N/A	2022-10-29	2023-10-28	
Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2022-10-06	2023-10-05	
EMI Test Software	AUDIX	E3	/	N/A	N/A	
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2022-06-16	2023-06-15	
Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A	
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28	
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11	
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04	
EMI Test Receiver	R&S	ESR 7	101181	2022-06-16	2023-06-15	
RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29	2023-10-28	
Broadband Preamplifier	/	BP-01M18G	P190501	2022-06-16	2023-06-15	
EMI Test Receiver	R&S	ESPI	101940	2022-08-18	2023-08-17	
Artificial Mains	R&S	ENV216	101288	2022-06-16	2023-06-15	
10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2022-06-16	2023-06-15	
EMI Test Software	Farad	EZ	/	N/A	N/A	
	MXA Signal Analyzer DC Power Supply Temperature & Humidity Chamber EMI Test Software 3m Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna Horn Antenna EMI Test Receiver RS SPECTRUM ANALYZER Broadband Preamplifier EMI Test Receiver Artificial Mains 10dB Attenuator	MXA Signal Analyzer DC Power Supply Agilent Temperature & Humidity Chamber EMI Test Software AUDIX 3m Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna By-log Antenna SCHWARZBECK Horn Antenna SCHWARZBECK EMI Test Receiver R&S RS SPECTRUM ANALYZER Broadband Preamplifier EMI Test Receiver R&S Artificial Mains R&S 10dB Attenuator Agilent Agilent Agilent Agilent Augilent Augilent Audilent SUANGZHOU GOGNWEN SIDT FRANKONIA SCHWARZBECK SCHWARZBECK RASS RESCHWARZBECK R&S	MXA Signal Analyzer Agilent N9020A DC Power Supply Agilent E3642A Temperature & Humidity Chamber GOGNWEN EMI Test Software AUDIX E3 3m Semi Anechoic Chamber FRANKONIA SAC-3M Positioning Controller Max-Full MF7802BS Active Loop Antenna SCHWARZBECK FMZB 1519B By-log Antenna SCHWARZBECK VULB9163 Horn Antenna SCHWARZBECK BBHA 9120D EMI Test Receiver R&S ESR 7 RS SPECTRUM ANALYZER R&S FSP40 Broadband Preamplifier / BP-01M18G EMI Test Receiver R&S ESPI Artificial Mains R&S ENV216 10dB Attenuator SCHWARZBECK MTS-IMP-136	MXA Signal Analyzer Agilent N9020A MY49100060 DC Power Supply Agilent E3642A N/A Temperature & Humidity Chamber GUANGZHOU GOGNWEN GDS-100 70932 EMI Test Software AUDIX E3 / 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY Positioning Controller Max-Full MF7802BS MF780208586 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 By-log Antenna SCHWARZBECK VULB9163 9163-470 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 EMI Test Receiver R&S ESR 7 101181 RS SPECTRUM ANALYZER R&S FSP40 100503 Broadband Preamplifier / BP-01M18G P190501 EMI Test Receiver R&S ESPI 101940 Artificial Mains R&S ENV216 101288 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032	MXA Signal Analyzer Agilent N9020A MY49100060 2022-10-29 DC Power Supply Agilent E3642A N/A 2022-10-29 Temperature & Humidity Chamber GUANGZHOU GOSNWEN GDS-100 70932 2022-10-06 EMI Test Software AUDIX E3 / N/A 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2022-06-16 Positioning Controller Max-Full MF7802BS MF780208586 N/A Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-08-29 By-log Antenna SCHWARZBECK VULB9163 9163-470 2021-09-12 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-09-05 EMI Test Receiver R&S ESR 7 101181 2022-06-16 RS SPECTRUM ANALYZER R&S FSP40 100503 2022-10-29 Broadband Preamplifier / BP-01M18G P190501 2022-06-16 EMI Test Receiver R&S ESPI 101940 2022-06-16	



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11. TEST SETUP PHOTOGRAPHS OF THE EUT

Please refer to separated files for Test Setup Photos of the EUT.

12. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

13. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----



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