



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

TEST REPORT

Report Reference No. : CTA26040100601

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Date of issue : May 06, 2026

Testing Laboratory Name : Shenzhen CTA Testing Technology Co., Ltd.

Address : Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : SHENZHEN XGRIDS-INNOVATION CO., LTD

Address : 2403&2404, 24 Floor, Building 1B, Shenzhen International Innovation Valley, Liuxiandong, Nanshan District, Shenzhen, Guangdong, China

Test specification..... :

Standard : Article 2 Paragraph 1 of Item 11-19, MIC Notice No.88 Appendix No.86
Article 2 Paragraph 1 of Item 54, MIC Notice No.88 Appendix No.75
Article 2 Paragraph 1 of Item 11-21

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Test item description..... : Mobile Computer

Trade Mark..... : N/A

Manufacturer..... : Dongguan Unicair Communication Tec.Co.,Ltd.

Model/Type reference..... : M93

Listed Models : N/A

Ratings..... : DC 3.85V From battery and DC 5.0V From external circuit

Result..... : PASS

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TEST REPORT

Equipment under Test : Mobile Computer

Model /Type : M93

Listed Models : N/A

Applicant : SHENZHEN XGRIDS-INNOVATION CO., LTD

Address : 2403&2404, 24 Floor, Building 1B, Shenzhen International
Innovation Valley, Liuxiandong, Nanshan District, Shenzhen,
Guangdong, China

Manufacturer : Dongguan Unicair Communication Tec.Co.,Ltd.

Address : No.49,Yinhu Road,Shishuikou Village,Qiaotou Town,Dong guan
City,Guangdong Province,China

Test Result:	PASS
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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.

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1 SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

Article 2 Paragraph 1 of Item 11-19, MIC Notice No.88 Appendix No.86

Article 2 Paragraph 1 of Item 54, MIC Notice No.88 Appendix No.75

Article 2 Paragraph 1 of Item 11-21, TDSC-FDMA 携帯無線通信陸上移動局の特性試験方法

1.2 Test Description

Test Item Article 2 Paragraph 1 Item 11-19&Item 11-21&Item54	Result
Frequency Tolerance	Pass
Output Power and Output Power Tolerance	Pass
Occupied Bandwidth	Pass
Unwanted Emission strength	Pass
Adjacent Channel Leakage Power	Pass
Leakage Power At No-Carrier Transmission	Pass
Secondary Radiated Emission Strength	Pass
Tx Inter-Modulation	Pass ^{Note1}
Transmission Burst Length	Pass ^{Note2}
System Operation Test	Pass

Note1: Applicable to Article 2 Paragraph 1 Item 11-21.

Note2: Applicable to Article 2, Paragraph 1, Item54.

1.3 TEST ENVIRONMENT

1.3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

1.3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

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A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2

1.4 Measurement Uncertainty

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR100028-1 [2] and shall correspond to an expansion factor (coverage factor) $K=1.96$ or $K=2$ (which provide confidence levels of respectively 95% and 95.5% in the case where the distributions characterizing the actual measurement uncertainties are normal).

Parameter	Uncertainty
Frequency error / 99%&90% bandwidth	$\pm 1.62 \times 10^{-6}$
Total RF power, conducted	$\pm 0.8\text{dB}$
Spurious emissions, conducted	$\pm 0.8\text{dB}$
DC and low frequency voltages	$\pm 0.05\%$
Humidity	$\pm 5\%$
Temperature	$\pm 1^\circ\text{C}$

2 GENERAL INFORMATION

2.1 General Remarks

Date of receipt of test sample	:	Apr. 01, 2026
Testing commenced on	:	Apr. 01, 2026
Testing concluded on	:	May 06, 2026

2.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Voltage	Normal Voltage	DC 3.85V
	High Voltage	DC 4.20V
	Low Voltage	DC 3.40V
Other	Normal Temperature	25°C
	Relative Humidity	55 %
	Air Pressure	989 hPa

Note: As the EUT was powered by DC 3.85V From battery and DC 5.0V From external circuit, and with the voltage stabilizing circuit used, the chip voltage received floating not exceed $\pm 1\%$ of nominal condition when working on extreme voltage, so all test performed at nominal voltage only.

2.3 General Description of EUT

Product Name:	Mobile Computer
Model/Type reference:	M93
Power supply:	DC 3.85V From battery and DC 5.0V From external circuit
Adapter information:	Model: HA1010SA-050 Input: AC 100-240V, 0.5A 50/60Hz Output: DC 5.0V 2.4A
Firmware Version:	V1.0
Hardware Version:	V1.0
Testing sample ID:	CTA260401006-1# (Engineer sample) CTA260401006-2# (Normal sample)
LTE:	
Support Band/3GPP Band:	LTE FDD Band 1: 1920-1960 MHz (UL), 2110 – 2150 MHz (DL) LTE FDD Band 3: 1710 – 1785 MHz (UL), 1805 – 1880 MHz (DL) LTE FDD Band 5: 824 – 845 MHz (UL), 869 – 890 MHz (DL) LTE FDD Band 8: 900 – 915 MHz (UL), 945 – 960 MHz (DL) LTE TDD Band 34: 2010– 2025MHz (UL), 2010– 2025MHz (DL) LTE TDD Band 38: 2570 – 2620 MHz (UL), 2570 – 2620 MHz (DL) LTE TDD Band 40: 2330 – 2370 MHz (UL), 2330 – 2370 MHz (DL) LTE TDD Band 41: 2545 – 2655 MHz (UL), 2545 – 2655MHz (DL)
Type of Modulation:	QPSK, 16QAM
Antenna type:	PIFA Antenna
Antenna gain:	LTE FDD Band 1: 1.28 dBi LTE FDD Band 3: 2.98 dBi LTE FDD Band 5: -4.46 dBi LTE FDD Band 8: -2.13 dBi LTE TDD Band 34: -2.48 dBi LTE TDD Band 38: 2.92 dBi LTE TDD Band 40: 2.62 dBi LTE TDD Band 41: 2.92 dBi

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Note: For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.4 Description of Test Modes

See the test procedure.

Channel List:

Test channel list							
Band1	2.1GHz	Frequency(MHz)	Channel	Band3	1.7GHz	Frequency(MHz)	Channel
L				L	3M	1711.5	19215
	5M	1922.5	18025		5M	1712.5	19225
	10M	1925.0	18050		10M	1715	19250
	15M	1927.5	18075		15M	1717.5	19275
	20M	1930.0	18100		20M	1720	19300
M	5M	1924.8	18048	M	3/5/10/15/20M	1747.5	19575
	10M	1929.8	18098				
	15M	1934.8	18148				
	20M	1939.8	18198				
H	5M	1927.1	18071	H	3M	1783.5	19935
	10M	1934.6	18146		5M	1782.5	19925
	15M	1942.1	18221		10M	1780	19900
	20M	1949.6	18296		15M	1777.5	19875
					20M	1775	19850

Band5	850MHz	Frequency(MHz)	Channel	Band8	900MHz	Frequency(MHz)	Channel
L	3M	825.5	20415	L	3M	901.5	21665
	5M	826.5	20425		5M	902.5	21675
	10M	829.0	20450		10M	905	21700
M	3/5/10M	834.5	20505	M	3/5/10M	907.5	21725
H	3M	843.5	20595	H	3M	913.5	21785
	5M	842.5	20585		5M	912.5	21775
	10M	840.0	20560		10M	910	21750

Band34	2100MHz	Frequency(MHz)	Channel	Band38	2.5GHz	Frequency(MHz)	Channel
L	5M	2012.5	36225	L	5M	2572.5	37775
	10M	2015	36250		10M	2575	37800
	15M	2017.5	36275		15M	2577.5	37825
					20M	2580	37850
M	5/10/15	2017.5	36275	M	5/10/15/20M	2595	38000
H	5M	2022.5	36325	H	5M	2617.5	38225
	10M	2020	36300		10M	2615	38200
	15M	2017.5	36275		15M	2612.5	38175
					20M	2610	38150

Band40	2300MHz	Frequency(MHz)	Channel	Band41	2500MHz	Frequency(MHz)	Channel
L	5M	2332.5	38975	L	5M	2547.5	40165
	10M	2335.0	39000		10M	2550	40190
	15M	2337.5	39025		15M	2552.5	40215
	20M	2340.0	39050		20M	2555	40240
M	5/10/15/20M	2350.0	39150	M	5/10/15/20M	2600	40690
H	5M	2367.5	39325	H	5M	2652.5	41215
	10M	2365.0	39300		10M	2650	41190
	15M	2362.5	39275		15M	2647.5	41165
	20M	2360.0	39250		20M	2645	41140

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2.5 Measurement Instruments List

Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Cal. Institution	Calibration Date	Calibration Due Date
1	Spectrum Analyzer	Agilent	N9020A	CTA-301	LISAI	2025/07/30	2026/07/29
2	Vector Signal generator	Agilent	N5182A	CTA-305	LISAI	2025/07/30	2026/07/29
3	Power Meter	R&S	NRVS	CTA-354	LISAI	2025/07/30	2026/07/29
4	DC Power Supply	LongWei	LW-K3010D	CTA-033	LISAI	2025/07/30	2026/07/29
5	Oscilloscope	Tektronix	TDS3052	CTA-010	LISAI	2025/07/30	2026/07/29
6	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW500	CTA-302	LISAI	2025/07/30	2026/07/29
7	Protocol Message Analyze Software	Rohde & Schwarz	CMWmars Viewer	/	Not Required	Not Required	Not Required
8	Insulation Resistance Tester	Longwei	LW-7201	CTA-411	LISAI	2025/07/30	2026/07/29

Cal. Institution: LiSai-Guangzhou LiSai Calibration and Testing Co.,LTD.

Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law".

☐ (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act.

☒ (c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above.

Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law".

LiSai-Guangzhou LiSai Calibration and Testing Co.,LTD.

3 Test conditions and Results

3.1 ANTENNA OUTPUT POWER, POWER TOLERANCE AND ANTENNA GAIN

Limit

Article 2 Paragraph 1 Item 11-19:

Output Power: less than 23 dBm(200mW)

Power Tolerance: -79% to 87%

Article 2 Paragraph 1 Item 11-21:

Output Power: less than 23 dBm(200mW)

Power Tolerance 2GHz band: -79% to 87%, 2.3G&3.5GHz band: -79% to 100%

Article 2, Paragraph 1, Item54:

Output Power: less than 26.02 dBm(400mW)

Power Tolerance: -79% to 87%

MEASUREMENT METHOD

According to ts-136 521-1: LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing. The initial test configurations consist of test frequencies, and channel bandwidths based on E-UTRA bands specified in table:

Test Parameters For Channel Bandwidths				
DownLink Configuration		UpLink Configuration		
CH BW	N/A for Max UE output power testing	Mode	RB Allocation	
			FDD	TDD
5M		QPSK	1	1
5M		QPSK	8	8
10M		QPSK	1	1
10M		QPSK	12	12
15M		QPSK	1	1
15M		QPSK	16	16
20M		QPSK	1	1
20M		QPSK	18	18

Note 1: Test Channel Bandwidths are checked separately for each E-UTRA band, the applicable channel bandwidths are specified in Table 5.4.2.1-1.

Note 2: For E-UTRA bands not applied with Note 2 in Table 6.2.2.3-1:

- The 1 RB allocation shall be tested at RB#0 for low and mid range, RB #max for high range test frequency.
- The RBstart of non-1RB allocation shall be RB #0 for low and mid range, RB# (max +1 - RB allocation) for high range test frequency.

Note 3: For E-UTRA bands applied with Note 2 in Table 6.2.2.3-1:

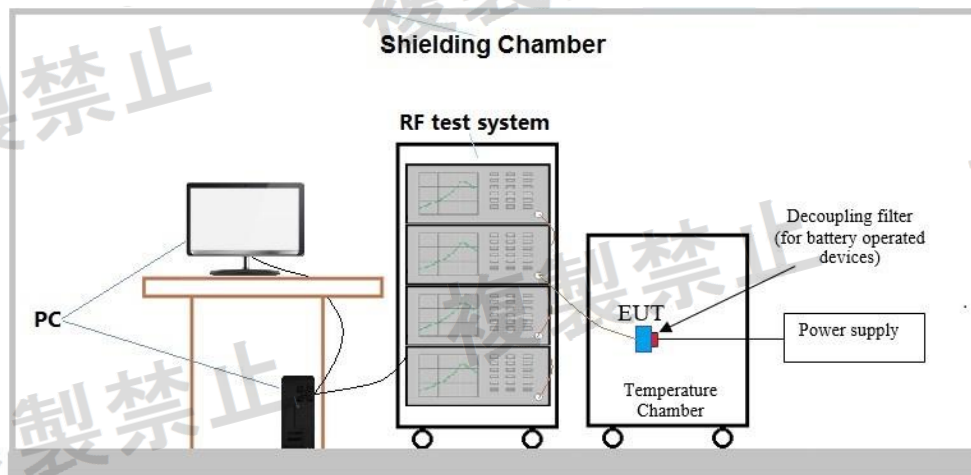
- If the test channel bandwidth is larger than 4MHz, then the 1 RB allocation shall be tested at both RB #0 and RB #max.
- If the test channel bandwidth is smaller or equal to 4MHz, then the 1 RB allocation shall be tested at RB #0.
- If the test channel bandwidth = (FUL_high - FUL_low) specified by the operating band, then only one frequency range shall be tested and the 1 RB allocation shall be tested at RB #0, RB # $\lceil \frac{N_{RB}^{UL}}{2} \rceil$ and RB #max.
- For non-1RB allocation, test frequency is middle range, and the RBstart shall be RB #0.

TEST SETUP

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TEST PROCEDURES

1. SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to Table. Since the UE has no payload and no loopback data to send the UE sends uplink MAC padding bits on the UL RMC.
2. Send continuously uplink power control "up" commands in every uplink scheduling information to the UE; allow at least 200ms for the UE to reach PUMAX level.
3. Measure the mean power of the UE in the channel bandwidth of the radio access mode. The period of measurement shall be at least the continuous duration of one sub-frame (1ms). For TDD slots with transient periods are not under test.

TEST RESULTS

Note: Test both modulation of QPSK and 16QAM are tested, only the worst case of QPSK recorded.

LTE Band 1												
Maximum Output Power [dBm/mW/%]												
Channel	Low channel(MHz)			Middle chanel(MHz)			High channel(MHz)			Output Power Limits	Output Power Tolerance Limits	Result
	LV	NV	HV	LV	NV	HV	LV	NV	HV			
Rated Power(dBm)	22	22	22	22	22	22	22	22	22			
Rated Power(mW)	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49			
5M												
Power (dBm)	22.50	22.69	22.43	22.52	22.46	22.39	22.28	22.49	22.37	23dBm	87%~~79%	PASS
Power (mW)	177.83	185.78	174.98	178.65	176.20	173.38	169.04	177.42	172.58			
Tolerance (%)	12.20	17.22	10.41	12.72	11.17	9.40	6.66	11.94	8.89			
10M												
Power (dBm)	22.35	22.48	22.01	22.44	22.35	22.17	22.35	22.56	22.36	23dBm	87%~~79%	PASS
Power (mW)	171.79	177.01	158.85	175.39	171.79	164.82	171.79	180.30	172.19			
Tolerance (%)	8.39	11.69	0.23	10.66	8.39	3.99	8.39	13.76	8.64			
15M												
Power (dBm)	22.49	22.52	22.47	22.43	22.64	22.24	22.21	22.35	22.16	23dBm	87%~~79%	PASS
Power (mW)	177.42	178.65	176.60	174.98	183.65	167.49	166.34	171.79	164.44			
Tolerance (%)	11.94	12.72	11.43	10.41	15.88	5.68	4.95	8.39	3.75			
20M												
Power (dBm)	22.42	22.59	22.32	22.32	22.52	22.21	22.23	22.29	22.28	23dBm	87%~~79%	PASS
Power (mW)	174.58	181.55	170.61	170.61	178.65	166.34	167.11	169.43	169.04			
Tolerance (%)	10.15	14.55	7.65	7.65	12.72	4.95	5.44	6.91	6.66			
LTE Band 3												
Maximum Output Power [dBm/mW/%]												
Channel	Low channel(MHz)			Middle chanel(MHz)			High channel(MHz)			Output Power Limits	Output Power Tolerance Limits	Result
	LV	NV	HV	LV	NV	HV	LV	NV	HV			
Rated Power(dBm)	22	22	22	22	22	22	22	22	22			
Rated Power(mW)	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49			
3M												
Power (dBm)	22.44	22.7	22.44	22.34	22.48	22.32	22.29	22.31	22.27	23dBm	87%~~79%	PASS
Power (mW)	175.39	186.21	175.39	171.40	177.01	170.61	169.43	170.22	168.66			
Tolerance (%)	10.66	17.49	10.66	8.14	11.69	7.65	6.91	7.40	6.41			
5M												
Power (dBm)	22.28	22.36	22.12	22.42	22.35	22.24	22.29	22.54	22.32	23dBm	87%~~79%	PASS
Power (mW)	169.04	172.19	162.93	174.58	171.79	167.49	169.43	179.47	170.61			
Tolerance (%)	6.66	8.64	2.80	10.15	8.39	5.68	6.91	13.24	7.65			
10M												
Power (dBm)	22.32	22.54	22.5	22.38	22.62	22.43	22.13	22.27	22.27	23dBm	87%~~79%	PASS
Power (mW)	170.61	179.47	177.83	172.98	182.81	174.98	163.31	168.66	168.66			
Tolerance (%)	7.65	13.24	12.20	9.14	15.35	10.41	3.04	6.41	6.41			
15M												
Power (dBm)	22.36	22.6	22.49	22.44	22.55	22.23	22.28	22.51	22.27	23dBm	87%~~79%	PASS
Power (mW)	172.19	181.97	177.42	175.39	179.89	167.11	169.04	178.24	168.66			
Tolerance (%)	8.64	14.82	11.94	10.66	13.50	5.44	6.66	12.46	6.41			
20M												
Power (dBm)	22.33	22.66	22.27	22.44	22.48	22.4	22.15	22.52	22.22	23dBm	87%~~79%	PASS
Power (mW)	171.00	184.50	168.66	175.39	177.01	173.78	164.06	178.65	166.72			
Tolerance (%)	7.89	16.41	6.41	10.66	11.69	9.65	3.51	12.72	5.20			

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LTE Band 5												
Maximum Output Power [dBm/mW/%]												
Channel	Low channel(MHz)			Middle chanel(MHz)			High channel(MHz)			Output Power Limits	Output Power Tolerance Limits	Result
	LV	NV	HV	LV	NV	HV	LV	NV	HV			
Rated Power(dBm)	22	22	22	22	22	22	22	22	22			
Rated Power(mW)	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49			
3M												
Power (dBm)	22.49	22.6	22.33	22.42	22.47	22.25	22.21	22.36	22.42	23dBm	87%~~79%	PASS
Power (mW)	177.42	181.97	171.00	174.58	176.60	167.88	166.34	172.19	174.58			
Tolerance (%)	11.94	14.82	7.89	10.15	11.43	5.93	4.95	8.64	10.15			
5M												
Power (dBm)	22.24	22.28	22.12	22.24	22.46	22.3	22.28	22.52	22.25	23dBm	87%~~79%	PASS
Power (mW)	167.49	169.04	162.93	167.49	176.20	169.82	169.04	178.65	167.88			
Tolerance (%)	5.68	6.66	2.80	5.68	11.17	7.15	6.66	12.72	5.93			
10M												
Power (dBm)	22.47	22.47	22.39	22.46	22.68	22.21	22.22	22.34	22.43	23dBm	87%~~79%	PASS
Power (mW)	176.60	176.60	173.38	176.20	185.35	166.34	166.72	171.40	174.98			
Tolerance (%)	11.43	11.43	9.40	11.17	16.95	4.95	5.20	8.14	10.41			

LTE Band 8												
Maximum Output Power [dBm/mW/%]												
Channel	Low channel(MHz)			Middle channel(MHz)			High channel(MHz)			Output Power Limits	Output Power Tolerance Limits	Result
	LV	NV	HV	LV	NV	HV	LV	NV	HV			
Rated Power(dBm)	22	22	22	22	22	22	22	22	22			
Rated Power(mW)	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49			
3M												
Power (dBm)	22.48	22.57	22.3	22.54	22.6	22.36	22.29	22.34	22.19	23dBm	87%~~79%	PASS
Power (mW)	177.01	180.72	169.82	179.47	181.97	172.19	169.43	171.40	165.58			
Tolerance (%)	11.69	14.02	7.15	13.24	14.82	8.64	6.91	8.14	4.47			
5M												
Power (dBm)	22.34	22.26	22.29	22.39	22.43	22.2	22.21	22.3	22.31	23dBm	87%~~79%	PASS
Power (mW)	171.40	168.27	169.43	173.38	174.98	165.96	166.34	169.82	170.22			
Tolerance (%)	8.14	6.17	6.91	9.40	10.41	4.71	4.95	7.15	7.40			
10M												
Power (dBm)	22.48	22.67	22.48	22.4	22.66	22.15	22.1	22.43	22.42	23dBm	87%~~79%	PASS
Power (mW)	177.01	184.93	177.01	173.78	184.50	164.06	162.18	174.98	174.58			
Tolerance (%)	11.69	16.68	11.69	9.65	16.41	3.51	2.33	10.41	10.15			

LTE Band 34												
Maximum Output Power [dBm/mW/%]												
Channel	Low channel(MHz)			Middle chanel(MHz)			High channel(MHz)			Output Power Limits	Output Power Tolerance Limits	Result
	LV	NV	HV	LV	NV	HV	LV	NV	HV			
Rated Power(dBm)	22	22	22	22	22	22	22	22	22			
Rated Power(mW)	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49			
5M												
Power (dBm)	22.39	22.53	22.36	22.37	22.66	22.27	22.29	22.53	22.32	23dBm	87%~~79%	PASS
Power (mW)	173.38	179.06	172.19	172.58	184.50	168.66	169.43	179.06	170.61			
Tolerance (%)	9.40	12.98	8.64	8.89	16.41	6.41	6.91	12.98	7.65			
10M												
Power (dBm)	22.27	22.46	22.08	22.2	22.58	22.11	22.26	22.42	22.31	23dBm	87%~~79%	PASS
Power (mW)	168.66	176.20	161.44	165.96	181.13	162.55	168.27	174.58	170.22			
Tolerance (%)	6.41	11.17	1.86	4.71	14.29	2.57	6.17	10.15	7.40			
15M												
Power (dBm)	22.54	22.46	22.49	22.31	22.64	22.27	22.37	22.34	22.42	23dBm	87%~~79%	PASS
Power (mW)	179.47	176.20	177.42	170.22	183.65	168.66	172.58	171.40	174.58			
Tolerance (%)	13.24	11.17	11.94	7.40	15.88	6.41	8.89	8.14	10.15			

LTE Band 38												
Maximum Output Power [dBm/mW/%]												
Channel	Low channel(MHz)			Middle chanel(MHz)			High channel(MHz)			Output Power Limits	Output Power Tolerance Limits	Result
	LV	NV	HV	LV	NV	HV	LV	NV	HV			
Rated Power	22	22	22	22	22	22	22	22	22			
Rated Power(mW)	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49			
5M												
Power (dBm)	22.41	22.66	22.44	22.55	22.4	22.3	22.08	22.54	22.33	26dBm	87%~~79%	PASS
Power (mW)	174.18	184.50	175.39	179.89	173.78	169.82	161.44	179.47	171.00			
Tolerance (%)	9.90	16.41	10.66	13.50	9.65	7.15	1.86	13.24	7.89			
10M												
Power (dBm)	22.34	22.28	22.3	22.34	22.38	22.24	22.32	22.35	22.2	26dBm	87%~~79%	PASS
Power (mW)	171.40	169.04	169.82	171.40	172.98	167.49	170.61	171.79	165.96			
Tolerance (%)	8.14	6.66	7.15	8.14	9.14	5.68	7.65	8.39	4.71			
15M												
Power (dBm)	22.49	22.7	22.46	22.42	22.62	22.43	22.36	22.44	22.17	26dBm	87%~~79%	PASS
Power (mW)	177.42	186.21	176.20	174.58	182.81	174.98	172.19	175.39	164.82			
Tolerance (%)	11.94	17.49	11.17	10.15	15.35	10.41	8.64	10.66	3.99			
20M												
Power (dBm)	22.36	22.67	22.25	22.47	22.63	22.25	22.13	22.4	22.37	26dBm	87%~~79%	PASS
Power (mW)	172.19	184.93	167.88	176.60	183.23	167.88	163.31	173.78	172.58			
Tolerance (%)	8.64	16.68	5.93	11.43	15.61	5.93	3.04	9.65	8.89			

LTE Band 40												
Maximum Output Power [dBm/mW/%]												
Channel	Low channel(MHz)			Middle channel(MHz)			High channel(MHz)			Output Power Limits	Output Power Tolerance Limits	Result
	LV	NV	HV	LV	NV	HV	LV	NV	HV			
Rated Power	22	22	22	22	22	22	22	22	22			
Rated Power(mW)	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49			
5M												
Power (dBm)	22.32	22.68	22.32	22.5	22.5	22.43	22.15	22.43	22.17	23dBm	87%~79%	PASS
Power (mW)	170.61	185.35	170.61	177.83	177.83	174.98	164.06	174.98	164.82			
Tolerance (%)	7.65	16.95	7.65	12.20	12.20	10.41	3.51	10.41	3.99			
10M												
Power (dBm)	22.42	22.31	22.1	22.32	22.31	22.23	22.26	22.32	22.41	23dBm	87%~79%	PASS
Power (mW)	174.58	170.22	162.18	170.61	170.22	167.11	168.27	170.61	174.18			
Tolerance (%)	10.15	7.40	2.33	7.65	7.40	5.44	6.17	7.65	9.90			
15M												
Power (dBm)	22.46	22.62	22.25	22.33	22.58	22.39	22.34	22.35	22.21	23dBm	87%~79%	PASS
Power (mW)	176.20	182.81	167.88	171.00	181.13	173.38	171.40	171.79	166.34			
Tolerance (%)	11.17	15.35	5.93	7.89	14.29	9.40	8.14	8.39	4.95			
20M												
Power (dBm)	22.52	22.64	22.36	22.29	22.67	22.32	22.35	22.56	22.3	23dBm	87%~79%	PASS
Power (mW)	178.65	183.65	172.19	169.43	184.93	170.61	171.79	180.30	169.82			
Tolerance (%)	12.72	15.88	8.64	6.91	16.68	7.65	8.39	13.76	7.15			

LTE Band 41												
Maximum Output Power [dBm/mW/%]												
Channel	Low channel(MHz)			Middle channel(MHz)			High channel(MHz)			Output Power Limits	Output Power Tolerance Limits	Result
	LV	NV	HV	LV	NV	HV	LV	NV	HV			
Rated Power	22	22	22	22	22	22	22	22	22			
Rated Power(mW)	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49	158.49			
5M												
Power (dBm)	22.4	22.48	22.31	22.43	22.54	22.33	22.13	22.36	22.17	26dBm	87%~79%	PASS
Power (mW)	173.78	177.01	170.22	174.98	179.47	171.00	163.31	172.19	164.82			
Tolerance (%)	9.65	11.69	7.40	10.41	13.24	7.89	3.04	8.64	3.99			
10M												
Power (dBm)	22.21	22.23	22.23	22.36	22.54	22.19	22.33	22.53	22.4	26dBm	87%~79%	PASS
Power (mW)	166.34	167.11	167.11	172.19	179.47	165.58	171.00	179.06	173.78			
Tolerance (%)	4.95	5.44	5.44	8.64	13.24	4.47	7.89	12.98	9.65			
15M												
Power (dBm)	22.31	22.52	22.43	22.5	22.44	22.41	22.21	22.28	22.25	26dBm	87%~79%	PASS
Power (mW)	170.22	178.65	174.98	177.83	175.39	174.18	166.34	169.04	167.88			
Tolerance (%)	7.40	12.72	10.41	12.20	10.66	9.90	4.95	6.66	5.93			
20M												
Power (dBm)	22.43	22.65	22.22	22.51	22.64	22.42	22.28	22.46	22.2	26dBm	87%~79%	PASS
Power (mW)	174.98	184.08	166.72	178.24	183.65	174.58	169.04	176.20	165.96			
Tolerance (%)	10.41	16.14	5.20	12.46	15.88	10.15	6.66	11.17	4.71			

3.2 FREQUENCY TOLERANCE AT VOLTAGE FLUCTUATION, ENVIRONMENT AND VIBRATION CONDITION

Limit

Article 2 Paragraph 1 Item 11-19: $\leq \pm(0.1 \times 10^{-6} + 15) \text{ Hz}$

Article 2 Paragraph 1 Item 11-21: $\leq \pm(0.1 \times 10^{-6} + 15) \text{ Hz}$

Article 2, Paragraph 1, Item 54: $\leq 3 \times 10^{-6}$

MEASUREMENT METHOD

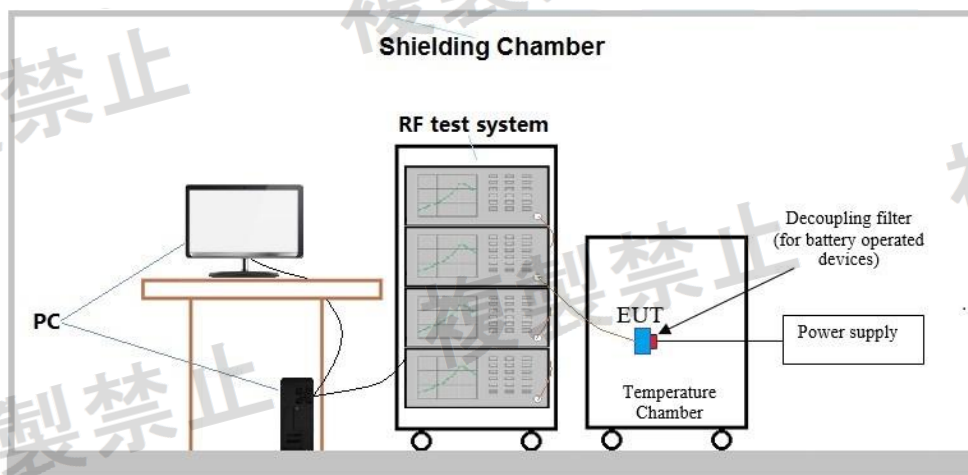
According to ts-136 521-1: LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment(UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing. The initial test configurations consist of test frequencies, and channel bandwidths based on E-UTRA bands specified in table:

Test Parameters For Channel Bandwidths						
DownLink Configuration				UpLink Configuration		
CH BW	Mode	RB Allocation		Mode	RB Allocation	
		FDD	TDD		FDD	TDD
5M	QPSK	25	25	QPSK	25	25
5M	QPSK	25	N/A	QPSK	20	N/A
5M	QPSK	25	N/A	QPSK	15	N/A
10M	QPSK	50	50	QPSK	50	50
10M	QPSK	50	N/A	QPSK	25	N/A
10M	QPSK	50	N/A	QPSK	20	N/A
10M	QPSK	50	N/A	QPSK	15	N/A
15M	QPSK	75	75	QPSK	75	75
15M	QPSK	75	N/A	QPSK	50	N/A
15M	QPSK	75	N/A	QPSK	25	N/A
15M	QPSK	75	N/A	QPSK	20	N/A
20M	QPSK	100	100	QPSK	100	100
20M	QPSK	100	N/A	QPSK	75	N/A
20M	QPSK	100	N/A	QPSK	50	N/A
20M	QPSK	100	N/A	QPSK	25	N/A
20M	QPSK	100	N/A	QPSK	20	N/A

Note 1: Test channel bandwidths are checked separately for each E-UTRA band, which applicable channel bandwidths are specified in Table 5.4.2.1-1.

Note 2: Depending on E-UTRA band, only the appropriate Uplink RB allocation value according to table 7.3.3-2 is tested per test channel bandwidth.

TEST SETUP



TEST PROCEDURES

1. Vibration test:

Set the vibration test system as the table below:

Frequency	ASD(Acceleration Spectral Density) random vibration
From 5Hz to 20Hz	0.96m2/s3
Exceeding 20Hz to 500Hz	-3dB/Octave

Start the vibration test system, Test the frequency tolerance, Record the test result.

2. Temperature test:

Place the device to be tested in the temperature and humidity tester in the non-operation state and set the temperature of the temperature and humidity tester to a low temperature while in this condition. the low temperature is 0°C, -10°C and -20°C, use the minimum value within the range of the specification of the device to be tested. the high temperature is 40°C, 50°C and 60°C, use the highest value within the range of the specification of the device to be tested.

Leave it in this condition for 1hour.

Apply the prescribed power supply voltage to operate to device to be tested in the temperature and humidity tester. Test the frequency tolerance, Record the test result.

3. Humidity Test:

Place the device to be tested in the temperature and humidity tester in the non-operating state. While this condition remains, set the temperature to 35°C and the relative humidity to 95% or the maximum or the maximum humidity in the specification of the device to be tested in the temperature and humidity tester. Leave it in this condition for 4 hours.

After this time, the setting of the temperature and humidity tester is changed back to the normal temperature and normal humidity and, after confirming that there is no condensation, operate the device to be tested by applying the prescribed power supply voltage.

Test the frequency tolerance, Record the test result.

4. Voltage Fluctuation Test:

Set the power supply to test voltage, Test the frequency tolerance, Record the test result. Note: NH:

Normal Humidity: 65%

HH: High Humidity: 95%

NT: Normal Temperature: 26°C

LT: Low Temperature: -20°C

HT: High Temperature: 60°C

LV: Low Voltage: 3.4V

NV: Normal Voltage: 3.85V

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

HV: High Voltage 4.2V

5. Environmental Conditions:

Temperature:	26 °C
Relative Humidity:	65 %
ATM Pressure:	100 kPa

TEST RESULTS

Please refer to MIC Appendix RF Test Data for LTE Band 1, MIC Appendix RF Test Data for LTE Band 3, MIC Appendix RF Test Data for LTE Band 5, MIC Appendix RF Test Data for LTE Band 8, MIC Appendix RF Test, MIC Appendix RF Test Data for LTE Band 34, MIC Appendix RF Test Data for LTE Band 38, MIC Appendix RF Test Data for LTE Band 40, MIC Appendix RF Test Data for LTE Band 41.

3.3 OCCUPIED BANDWIDTH

Limit

Article 2 Paragraph 1 Item 11-19

Related bandwidth	3MHz	5MHz	10MHz	15MHz	20MHz
Occupied Bandwidth	≤3 MHz	≤5 MHz	≤10 MHz	≤15 MHz	≤20 MHz

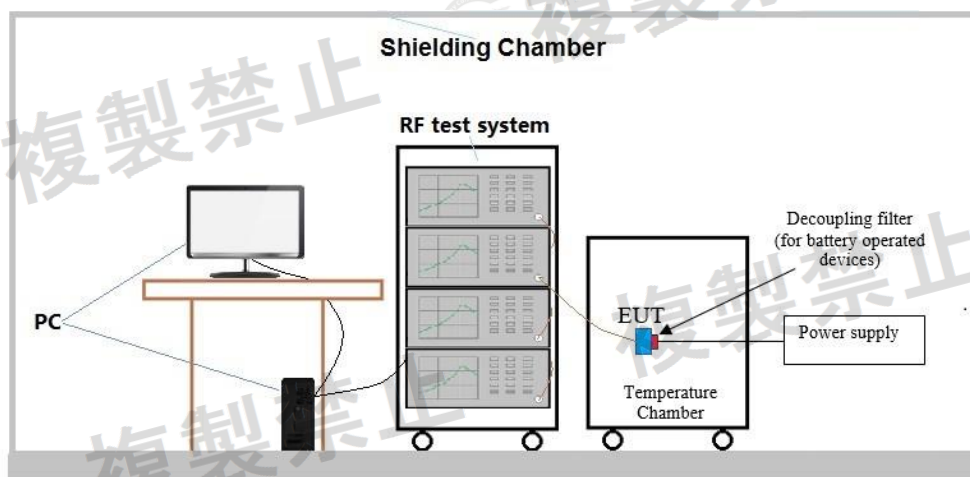
Article 2 Paragraph 1 Item 11-21

Related bandwidth	5MHz	10MHz	15MHz	20MHz
Occupied Bandwidth	≤5 MHz	≤10 MHz	≤15 MHz	≤20 MHz

Article 2 Paragraph 1 Item54

Related bandwidth	2.5MHz	5MHz	10MHz	20MHz
Occupied Bandwidth	≤2.5 MHz	≤10 MHz	≤10 MHz	≤20 MHz

TEST CONFIGURATION



TEST PROCEDURE

- Setting of SA is following as: RB: 100 kHz / VB: 100 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Sample / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.

MEASUREMENT METHOD

According To Ts-136 521-1: LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Conformance Specification; Radio Transmission And Reception; Part 1: Conformance Testing. The Initial Test Configurations Consist Of Test Frequencies, And Channel Bandwidths Based On E-UTRA Bands Specified In Table:

Note 1: Test Channel Bandwidths are checked separately for each E-UTRA band, the applicable channel bandwidths are specified in Table 5.4.2.1-1.

Test Parameters For Channel Bandwidths					
CH BW	DownLink Configuration N/A For Occupied Bandwidth	UpLink Configuration			
		Mode		RB Allocation	
		QPSK	16QAM	FDD	TDD
5M		QPSK	16QAM	25	25
10M		QPSK	16QAM	50	50
15M		QPSK	16QAM	75	75
20M		QPSK	16QAM	100	100

TEST RESULTS

Please refer to MIC Appendix RF Test Data for LTE Band 1, MIC Appendix RF Test Data for LTE Band 3, MIC Appendix RF Test Data for LTE Band 5, MIC Appendix RF Test Data for LTE Band 8, MIC Appendix RF Test, MIC Appendix RF Test Data for LTE Band 34, MIC Appendix RF Test Data for LTE Band 38, MIC Appendix RF Test Data for LTE Band 40, MIC Appendix RF Test Data for LTE Band 41.

3.4 UNWANTED EMISSION STRENGTH IN THE OUT-OF-BAND DOMAIN

Limit

Article 2 Paragraph 1 Item 11-19

Transmission System	Technical Requirement
Transmission by the "one" carrier or Simultaneous transmission by the non-continuous "multiple" carrier(*)	3MHz
	CF ± (1.5 - 2.5) MHz : -11.5dBm /30kHz
	CF ± (2.5 - 6.5) MHz : -8.5dBm/MHz
	CF ± (6.5 - 7.5) MHz : -23.5dBm/MHz
	5MHz
	CF ± (2.5 - 3.5) MHz : -13.5dBm /30kHz
	CF ± (3.5 - 7.5) MHz : -8.5dBm/MHz
	CF ± (7.5 - 8.5) MHz : -11.5dBm/MHz
	CF ± (8.5 - 12.5) MHz : -23.5dBm/MHz
	10MHz
	CF ± (5 - 6) MHz : -16.5dBm /30kHz
	CF ± (6 - 10) MHz : -8.5dBm/MHz
	CF ± (10 - 15) MHz : -11.5dBm/MHz
	CF ± (15 - 20) MHz : -23.5dBm/MHz
	15MHz
	CF ± (7.5 - 8.5) MHz : -18.5dBm /30kHz
	CF ± (8.5 - 12.5) MHz : -8.5dBm/MHz
	CF ± (12.5 - 22.5) MHz : -11.5dBm/MHz
	CF ± (22.5 - 27.5) MHz : -23.5dBm/MHz
	20MHz
	CF ± (10 - 11) MHz : -19.5dBm /30kHz
	CF ± (11 - 15) MHz : -8.5dBm/MHz
	CF ± (15 - 30) MHz : -11.5dBm/MHz
	CF ± (30 - 35) MHz : -23.5dBm/MHz

Article 2 Paragraph 1 Item 11-21

*2GHz Band (2.010 ~ 2.025 MHz)

5MHz System	10MHz System	15MHz System
Detuning Frequency Under 1MHz : *Cf ± (2.5 - 3.5) MHz : -13.5dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (5 - 6) MHz : -16.5dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (7.5 - 8.5) MHz : -18.5dBm /30kHz
Detuning Frequency 1 - 5 MHz : *Cf ± (3.5 - 7.5) MHz : -8.5dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (6 - 10) MHz : -8.5dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (8.5 - 12.5) MHz : -8.5dBm/MHz
Detuning Frequency 5 - 10 MHz : *Cf ± (7.5 - 8.5) MHz : -11.5dBm/MHz	Detuning Frequency 5 - 10 MHz : *Cf ± (10 - 15) MHz : -11.5dBm/MHz	Detuning Frequency 5 - 15 MHz : *Cf ± (12.5 - 22.5) MHz : -11.5dBm/MHz
Detuning Frequency 6 - 10 MHz : *Cf ± (8.5 - 12.5) MHz : -23.5dBm/MHz	Detuning Frequency 10 - 15 MHz : *Cf ± (15 - 20) MHz : -23.5dBm/MHz	Detuning Frequency 15 - 20 MHz : *Cf ± (22.5 - 27.5) MHz : -23.5dBm/MHz

Detuning Frequency : Frequency of the difference from the "end of a transmit frequency range(Limited to the near end of measurement of the unwanted emission strength)" to the "end of the measurement range of the unwanted emission strength(Limited to the near end of a transmit frequency range)".

*= An actual measurement range

*2.3GHz band (2.330 ~ 2.370 MHz) or 3.5GHz Band (3.400 ~ 3.600 MHz)

5MHz System	10MHz System	15MHz System	20MHz System
Detuning Frequency Under 1MHz : *Cf ± (2.5 - 3.5) MHz : -13.2dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (5 - 6) MHz : -16.2dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (7.5 - 8.5) MHz : -18.2dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (10 - 11) MHz : -19.2dBm /30kHz
Detuning Frequency 1 - 5 MHz : *Cf ± (3.5 - 7.5) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (6 - 10) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (8.5 - 12.5) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (11 - 15) MHz : -8.2dBm/MHz
Detuning Frequency 5 - 10 MHz : *Cf ± (7.5 - 8.5) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 10 MHz : *Cf ± (10 - 15) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 15 MHz : *Cf ± (12.5 - 22.5) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 20 MHz : *Cf ± (15 - 30) MHz : -11.2dBm/MHz
Detuning Frequency 6 - 10 MHz : *Cf ± (8.5 - 12.5) MHz : -23.2dBm/MHz	Detuning Frequency 10 - 15 MHz : *Cf ± (15 - 20) MHz : -23.2dBm/MHz	Detuning Frequency 15 - 20 MHz : *Cf ± (22.5 - 27.5) MHz : -23.2dBm/MHz	Detuning Frequency 20 - 25 MHz : *Cf ± (30 - 35) MHz : -23.2dBm/MHz

5MHz + 5MHz System	5MHz + 10MHz System	5MHz + 15MHz System	5MHz + 20MHz System	10MHz + 10MHz System
Detuning Frequency Under 1MHz : *Cf ± (4.5 - 5.9) MHz : -16.1dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (7.475 - 8.475) MHz : -18.1dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (9.9 - 10.9) MHz : -19.1dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (12.475 - 13.475) MHz : -20.2dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (9.95 - 10.95) MHz : -19.1dBm /30kHz
Detuning Frequency 1 - 5 MHz : *Cf ± (5.9 - 6.9) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (8.475 - 12.475) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (10.9 - 14.9) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (13.475 - 17.475) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (10.95 - 14.95) MHz : -8.2dBm/MHz
Detuning Frequency 5 - 10 MHz : *Cf ± (6.9 - 14.7) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 10 MHz : *Cf ± (12.475 - 22.425) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 10 MHz : *Cf ± (14.9 - 20.7) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 20 MHz : *Cf ± (17.475 - 37.425) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 10 MHz : *Cf ± (14.95 - 29.95) MHz : -11.2dBm/MHz
Detuning Frequency 9.5 - 14.5 MHz : *Cf ± (14.7 - 19.7) MHz : -23.2dBm/MHz	Detuning Frequency 14.95 - 19.95 MHz : *Cf ± (22.425 - 27.425) MHz : -23.2dBm/MHz	Detuning Frequency 19.9 - 24.9 MHz : *Cf ± (29.7 - 34.7) MHz : -23.2dBm/MHz	Detuning Frequency 24.95 - 29.95 MHz : *Cf ± (37.425 - 42.425) MHz : -23.2dBm/MHz	Detuning Frequency 19.9 - 24.9 MHz : *Cf ± (29.95 - 34.95) MHz : -23.2dBm/MHz

10MHz + 15MHz System	10MHz + 20MHz System	15MHz + 15MHz System	15MHz + 20MHz System	20MHz + 20MHz System
Detuning Frequency Under 1MHz : *Cf ± (12.375 - 13.375) MHz : -20.2dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (14.95 - 15.95) MHz : -20.7dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (15 - 16) MHz : -20.7dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (17.425 - 18.425) MHz : -21.7dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (17.425 - 18.425) MHz : -22.2dBm /30kHz
Detuning Frequency 1 - 5 MHz : *Cf ± (13.375 - 17.375) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (15.95 - 19.95) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (16 - 20) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (18.425 - 22.425) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (20.9 - 24.9) MHz : -8.2dBm/MHz
Detuning Frequency 5 - 24.75 MHz : *Cf ± (17.375 - 37.125) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 29.9 MHz : *Cf ± (19.95 - 44.85) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 30 MHz : *Cf ± (20 - 45) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 34.85 MHz : *Cf ± (22.425 - 52.275) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 39.8 MHz : *Cf ± (24.9 - 59.7) MHz : -11.2dBm/MHz
Detuning Frequency 24.75 - 29.75 MHz : *Cf ± (37.125 - 42.125) MHz : -23.2dBm/MHz	Detuning Frequency 29.9 - 34.9 MHz : *Cf ± (44.85 - 49.85) MHz : -23.2dBm/MHz	Detuning Frequency 30 - 35 MHz : *Cf ± (45 - 60) MHz : -23.2dBm/MHz	Detuning Frequency 34.85 - 39.85 MHz : *Cf ± (52.275 - 57.275) MHz : -23.2dBm/MHz	Detuning Frequency 39.8 - 44.8 MHz : *Cf ± (59.7 - 64.7) MHz : -23.2dBm/MHz

15MHz + 15MHz + 15MHz System	10MHz + 20MHz + 20MHz System	15MHz + 15MHz + 20MHz System	15MHz + 20MHz + 20MHz System	20MHz + 20MHz + 20MHz System
Detuning Frequency Under 1MHz : *Cf ± (22.5 - 23.5) MHz : -20.7dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (24.85 - 25.85) MHz : -20.7dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (24.925 - 25.925) MHz : -20.7dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (27.325 - 28.325) MHz : -21.7dBm /30kHz	Detuning Frequency Under 1MHz : *Cf ± (29.8 - 30.8) MHz : -22.2dBm /30kHz
Detuning Frequency 1 - 5 MHz : *Cf ± (23.5 - 27.5) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (25.85 - 29.85) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (25.925 - 29.925) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (28.325 - 32.325) MHz : -8.2dBm/MHz	Detuning Frequency 1 - 5 MHz : *Cf ± (30.8 - 34.8) MHz : -8.2dBm/MHz
Detuning Frequency 5 - 45 MHz : *Cf ± (27.5 - 87.5) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 49.7 MHz : *Cf ± (29.85 - 74.55) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 49.85 MHz : *Cf ± (29.925 - 74.775) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 54.85 MHz : *Cf ± (32.325 - 81.975) MHz : -11.2dBm/MHz	Detuning Frequency 5 - 59.8 MHz : *Cf ± (34.8 - 89.4) MHz : -11.2dBm/MHz
Detuning Frequency 45 - 50 MHz : *Cf ± (87.5 - 72.5) MHz : -23.2dBm/MHz	Detuning Frequency 49.7 - 54.7 MHz : *Cf ± (74.55 - 79.55) MHz : -23.2dBm/MHz	Detuning Frequency 49.85 - 54.85 MHz : *Cf ± (74.775 - 79.775) MHz : -23.2dBm/MHz	Detuning Frequency 54.85 - 59.85 MHz : *Cf ± (81.975 - 86.975) MHz : -23.2dBm/MHz	Detuning Frequency 59.8 - 64.8 MHz : *Cf ± (89.4 - 94.4) MHz : -23.2dBm/MHz

*Simultaneous transmission by the non-continuous "multiple" carrier

1. "Frequency higher than the highest frequency in the transmitting multiple carriers at same time" : It will apply the value corresponding to the transmission system of the carriers of the highest frequency.

"Frequency lower than the lowest frequency in the transmitting multiple carriers at same time" : It will apply the value corresponding to the transmission system of the carriers of the lowest frequency.

2. "Frequencies between the transmitting multiple carriers at the same time" applies "values for the each carriers(each value if the ranges overlap)". However, it does not apply to the case of overlap in the frequency range of "Adjacent Channel Leakage Power" was according to the channel spacing of the other carrier at the Simultaneous transmission.

Article 2, Paragraph 1, Item54

Transmission System		Technical Requirement
Transmission by the "one" carrier or Simultaneous transmission by the non-continuous "multiple" carrier(*)	2.5MHz	*Cf ± (3.75 - 6.25) MHz : -10dBm/MHz
	5MHz	*Cf ± (7.5 - 12.5) MHz : -10dBm/MHz
	10MHz	*Cf ± (15 - 20) MHz : -25dBm/MHz *Cf ± (20 - 25) MHz : -30dBm/MHz
	20MHz	*Cf ± (30 - 35) MHz : -25dBm/MHz *Cf ± (35 - 50) MHz : -30dBm/MHz
Simultaneous transmission by the continuous "two" carrier	5MHz & 5MHz	*Cf ± (9.9 - 14.7) MHz : -13dBm/MHz *Cf ± (14.7 - 19.7) MHz : -25dBm/MHz
	5MHz & 10MHz	*Cf ± (12.475 - 22.425) MHz : -13dBm/MHz *Cf ± (22.425 - 27.425) MHz : -25dBm/MHz
	10MHz & 10MHz	*Cf ± (14.95 - 29.85) MHz : -13dBm/MHz *Cf ± (29.85 - 34.85) MHz : -25dBm/MHz
	5MHz & 20MHz	*Cf ± (17.475 - 37.425) MHz : -13dBm/MHz *Cf ± (37.425 - 42.425) MHz : -25dBm/MHz
	10MHz & 20MHz	*Cf ± (19.95 - 44.85) MHz : -13dBm/MHz *Cf ± (44.85 - 49.85) MHz : -25dBm/MHz
	20MHz & 20MHz	*Cf ± (24.9 - 59.7) MHz : -13dBm/MHz *Cf ± (59.7 - 64.7) MHz : -25dBm/MHz

*Simultaneous transmission by the non-continuous "multiple" carrier

1. "Frequency higher than the highest frequency in the transmitting multiple carriers at same time" : It will apply the value corresponding to the transmission system of the carriers of the highest frequency.
"Frequency lower than the lowest frequency in the transmitting multiple carriers at same time" : It will apply the value corresponding to the transmission system of the carriers of the lowest frequency.

2. "Frequencies between the transmitting multiple carriers at the same time" applies "values for the each carriers(each value if the ranges overlap)". However, it does not apply to the case of overlap in the frequency range of "Adjacent Channel Leakage Power" was according to the channel spacing of the other carrier at the Simultaneous transmission.

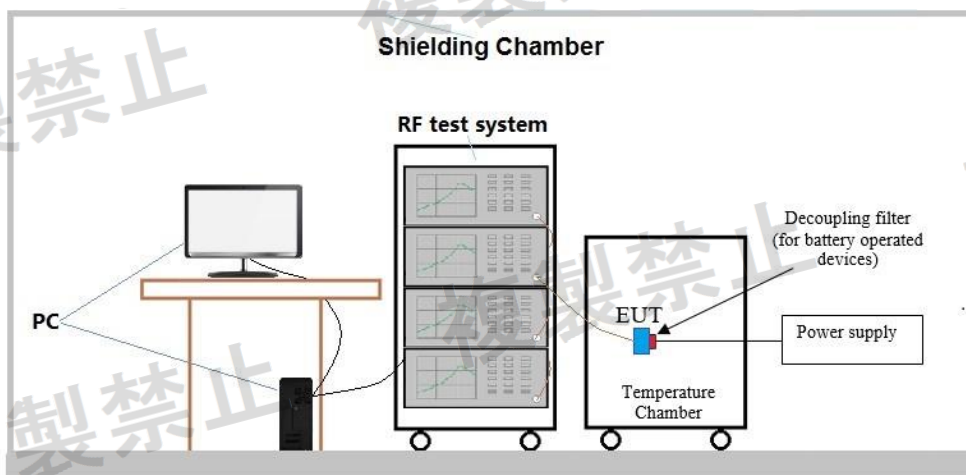
*=An actual measurement range

TEST SETUP

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MEASUREMENT METHOD

According to ts-136 521-1: LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing. The initial test configurations consist of test frequencies, and channel bandwidths based on E-UTRA bands

specified in table: Test Parameters For Channel Bandwidths					
DownLink Configuration		UpLink Configuration			
CH BW	N/A for SEM testing	Mode		RB Allocation	
5M		QPSK	16QAM	FDD	TDD
5M		QPSK	16QAM	8	8
10M		QPSK	16QAM (Not 4)	50	50
10M		QPSK	16QAM (Not 4)	25	25
15M		QPSK	16QAM (Not 4)	75	75
15M		QPSK	16QAM (Not 4)	16	16
20M		QPSK	16QAM (Not 4)	100	100
20M		QPSK	16QAM (Not 4)	18	18
Note 1: Test Channel Bandwidths are checked separately for each E-UTRA band, which applicable channel bandwidths are specified in Table 5.4.2.1-1.					
Note 2: The allowed MPR for maximum output power UE might apply is described in clause 6.2.3.3.					
Note 3: The RB _{start} of partial RB allocation shall be RB#0 and RB# (max+1 - RB allocation) of the channel bandwidth.					
Note 4: Applies only for UE-Categories ≥2					

TEST PROCEDURES

1. Set and send continuously Up power control commands to the UE until the UE output power shall be at the maximum level.
2. Measure the power of the transmitted signal with a measurement filter of bandwidths according to table. The characteristic of the filter shall be approximately Gaussian (typical spectrum analyzer filter). The centre frequency of the filter shall be stepped in contiguous steps according to table. The measured power shall be recorded for each step.

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3. Measure the RRC filtered mean power centred on the assigned channel frequency.
4. Calculate the ratio of the power 2) with respect to 3) in dBc.

TEST RESULTS

Please refer to MIC Appendix RF Test Data for LTE Band 1, MIC Appendix RF Test Data for LTE Band 3, MIC Appendix RF Test Data for LTE Band 5, MIC Appendix RF Test Data for LTE Band 8, MIC Appendix RF Test, MIC Appendix RF Test Data for LTE Band 34, MIC Appendix RF Test Data for LTE Band 38, MIC Appendix RF Test Data for LTE Band 40, MIC Appendix RF Test Data for LTE Band 41.

3.5 ADJACENT CHANNEL LEAKGE POWER

Limit

Article 2 Paragraph 1 Item 11-19

*Appendix 1 (Adjacent Channel Leakage Power)

Transmission System		Technical Requirement
Transmission by the "one" carrier or Simultaneous transmission by the non-continuous "multiple" carrier	3MHz	CF $\pm$ (1.65 - 4.35) MHz : -50dBm or -29.2dBc / 2.7MHz
		CF $\pm$ (2.08 - 5.92) MHz : -50dBm or -32.2dBc / 3.84MHz
	5MHz	CF $\pm$ (3.08 - 6.92) MHz : -50dBm or -32.2dBc / 3.84MHz (*1)
		CF $\pm$ (2.75 - 7.25) MHz : -50dBm or -29.2dBc / 4.5MHz (*2)
		CF $\pm$ (8.08 - 11.92) MHz : -50dBm or -35.2dBc / 3.84MHz (*3)
	10MHz	CF $\pm$ (5.58 - 9.42) MHz : -50dBm or -32.2dBc / 3.84MHz (*1)
		CF $\pm$ (5.5 - 14.5) MHz : -50dBm or -29.2dBc / 9MHz (*2)
		CF $\pm$ (10.58 - 14.42) MHz : -50dBm or -35.2dBc / 3.84MHz (*3)
	15MHz	CF $\pm$ (8.08 - 11.92) MHz : -50dBm or -32.2dBc / 3.84MHz (*1)
		CF $\pm$ (13.08 - 16.92) MHz : -50dBm or -35.2dBc / 3.84MHz (*3)
		CF $\pm$ (8.25 - 21.75) MHz : -50dBm or -29.2dBc / 13.5MHz (*2)
	20MHz	CF $\pm$ (10.58 - 14.42) MHz : -50dBm or -32.2dBc / 3.84MHz (*1)
		CF $\pm$ (15.58 - 19.42) MHz : -50dBm or -35.2dBc / 3.84MHz (*3)
		CF $\pm$ (11 - 29) MHz : -50dBm or -29.2dBc / 18MHz (*2)
Simultaneous transmission by the continuous "two" carrier (*4)	5MHz & 5MHz	CF $\pm$ (5.48 - 9.32) MHz : -50dBm or -32.2dBc / 3.84MHz
		CF $\pm$ (5.15 - 14.45) MHz : -50dBm or -29.2dBc / 9.3MHz
		CF $\pm$ (10.48 - 14.32) MHz : -50dBm or -35.2dBc / 3.84MHz
	5MHz & 10MHz	CF $\pm$ (8.055 - 11.895) MHz : -50dBm or -32.2dBc / 3.84MHz
		CF $\pm$ (7.975 - 21.925) MHz : -50dBm or -29.2dBc / 9MHz
		CF $\pm$ (13.055 - 16.895) MHz : -50dBm or -35.2dBc / 3.84MHz
	5MHz & 15MHz	CF $\pm$ (10.48 - 14.32) MHz : -50dBm or -32.2dBc / 3.84MHz
		CF $\pm$ (15.48 - 19.32) MHz : -50dBm or -35.2dBc / 3.84MHz
		CF $\pm$ (10.65 - 28.95) MHz : -50dBm or -29.2dBc / 18.3MHz
	10MHz & 10MHz	CF $\pm$ (10.53 - 14.37) MHz : -50dBm or -32.2dBc / 3.84MHz
		CF $\pm$ (15.53 - 19.37) MHz : -50dBm or -35.2dBc / 3.84MHz
		CF $\pm$ (10.45 - 29.35) MHz : -50dBm or -29.2dBc / 18.9MHz

• Simultaneous transmission by the non-continuous "multiple" carrier

*1. It is applied to the case of frequency difference (between the multiple carrier) of "5 MHz or more".

*2. It is applied to the case of frequency difference (between the multiple carrier) of "more than occupied bandwidth of each carrier adjacent to the frequency range (between the multiple carrier)".

*3. It is applied to the case of frequency difference (between the multiple carrier) of "15 MHz or more".

• Simultaneous transmission by the continuous "two" carrier

*4. CF : Center frequency of the transmission frequency band (The sum of the bandwidth of a continuous carrier)
dBc : The ratio of the carrier power (The sum of the power of a continuous carrier)

Article 2 Paragraph 1 Item 11-21

*2GHz Band (2,010 ~ 2,025 MHz)

5MHz System	10MHz System	15MHz System
$Cf \pm 5 \text{ MHz} : -50\text{dBm/MHz}$ or $^{*}Cf \pm (2.75 - 7.25) \text{ MHz} : -29.2\text{dB}/4.5\text{MHz}$	$Cf \pm 10 \text{ MHz} : -50\text{dBm/MHz}$ or $^{*}Cf \pm (5.5 - 14.5) \text{ MHz} : -29.2\text{dB}/9\text{MHz}$	$Cf \pm 15 \text{ MHz} : -50\text{dBm/MHz}$ or $^{*}Cf \pm (8.25 - 21.75) \text{ MHz} : -29.2\text{dB}/13.5\text{MHz}$

*2.3GHz band (2,330 ~ 2,370 MHz) or 3.5GHz Band (3,400 ~ 3,600 MHz)

5MHz System	10MHz System	15MHz System	20MHz System
$Cf \pm 5 \text{ MHz} : -50\text{dBm}/4.5\text{MHz}$ or $^{*}Cf \pm (2.75 - 7.25) \text{ MHz} : -29.2\text{dB}/4.5\text{MHz}$	$Cf \pm 10 \text{ MHz} : -50\text{dBm}/9\text{MHz}$ or $^{*}Cf \pm (5.5 - 14.5) \text{ MHz} : -29.2\text{dB}/9\text{MHz}$	$Cf \pm 15 \text{ MHz} : -50\text{dBm}/13.5\text{MHz}$ or $^{*}Cf \pm (8.25 - 21.75) \text{ MHz} : -29.2\text{dB}/13.5\text{MHz}$	$Cf \pm 20 \text{ MHz} : -50\text{dBm}/18\text{MHz}$ or $^{*}Cf \pm (11 - 29) \text{ MHz} : -29.2\text{dB}/18\text{MHz}$

5MHz + 5MHz System	5MHz + 10MHz System	5MHz + 15MHz System	5MHz + 20MHz System	10MHz + 10MHz System
$Cf \pm 9.8 \text{ MHz} : -50\text{dBm}/9.3\text{MHz}$ or $^{*}Cf \pm (5.15 - 14.45) \text{ MHz} : -29.2\text{dB}/9.3\text{MHz}$	$Cf \pm 14.95 \text{ MHz} : -50\text{dBm}/13.95\text{MHz}$ or $^{*}Cf \pm (7.975 - 21.925) \text{ MHz} : -29.2\text{dB}/13.95\text{MHz}$	$Cf \pm 19.8 \text{ MHz} : -50\text{dBm}/18.3\text{MHz}$ or $^{*}Cf \pm (10.65 - 28.95) \text{ MHz} : -29.2\text{dB}/18.3\text{MHz}$	$Cf \pm 24.95 \text{ MHz} : -50\text{dBm}/22.95\text{MHz}$ or $^{*}Cf \pm (13.475 - 36.425) \text{ MHz} : -29.2\text{dB}/22.95\text{MHz}$	$Cf \pm 19.9 \text{ MHz} : -50\text{dBm}/18.9\text{MHz}$ or $^{*}Cf \pm (10.45 - 29.35) \text{ MHz} : -29.2\text{dB}/18.9\text{MHz}$

10MHz + 15MHz System	10MHz + 20MHz System	15MHz + 15MHz System	15MHz + 20MHz System	20MHz + 20MHz System
$Cf \pm 24.75 \text{ MHz} : -50\text{dBm}/23.25\text{MHz}$ or $^{*}Cf \pm (13.125 - 36.375) \text{ MHz} : -29.2\text{dB}/23.25\text{MHz}$	$Cf \pm 29.9 \text{ MHz} : -50\text{dBm}/27.9\text{MHz}$ or $^{*}Cf \pm (15.95 - 43.85) \text{ MHz} : -29.2\text{dB}/27.9\text{MHz}$	$Cf \pm 30 \text{ MHz} : -50\text{dBm}/28.5\text{MHz}$ or $^{*}Cf \pm (15.75 - 44.25) \text{ MHz} : -29.2\text{dB}/28.5\text{MHz}$	$Cf \pm 34.85 \text{ MHz} : -50\text{dBm}/32.85\text{MHz}$ or $^{*}Cf \pm (18.425 - 51.275) \text{ MHz} : -29.2\text{dB}/32.85\text{MHz}$	$Cf \pm 39.8 \text{ MHz} : -50\text{dBm}/37.8\text{MHz}$ or $^{*}Cf \pm (20.9 - 58.7) \text{ MHz} : -29.2\text{dB}/37.8\text{MHz}$

15MHz + 15MHz + 15MHz System	10MHz + 20MHz + 20MHz System	15MHz + 15MHz + 20MHz System	15MHz + 20MHz + 20MHz System	20MHz + 20MHz + 20MHz System
$Cf \pm 45 \text{ MHz} : -50\text{dBm}/43.5\text{MHz}$ or $^{*}Cf \pm (23.25 - 66.75) \text{ MHz} : -29.2\text{dB}/43.5\text{MHz}$	$Cf \pm 49.7 \text{ MHz} : -50\text{dBm}/47.7\text{MHz}$ or $^{*}Cf \pm (25.85 - 73.55) \text{ MHz} : -29.2\text{dB}/47.7\text{MHz}$	$Cf \pm 49.85 \text{ MHz} : -50\text{dBm}/47.85\text{MHz}$ or $^{*}Cf \pm (25.925 - 73.775) \text{ MHz} : -29.2\text{dB}/47.85\text{MHz}$	$Cf \pm 54.85 \text{ MHz} : -50\text{dBm}/52.85\text{MHz}$ or $^{*}Cf \pm (28.325 - 80.975) \text{ MHz} : -29.2\text{dB}/52.85\text{MHz}$	$Cf \pm 59.6 \text{ MHz} : -50\text{dBm}/57.6\text{MHz}$ or $^{*}Cf \pm (30.8 - 88.4) \text{ MHz} : -29.2\text{dB}/57.6\text{MHz}$

*Simultaneous transmission by the non-continuous "multiple" carrier

1. "Frequency higher than the highest frequency in the transmitting multiple carriers at same time": It will apply the value corresponding to the transmission system of the carriers of the highest frequency.

*Frequency lower than the lowest frequency in the transmitting multiple carriers at same time": It will apply the value corresponding to the transmission system of the carriers of the lowest frequency.

2. "Frequencies between the transmitting multiple carriers at the same time" applies "values for the each carriers(each value if the ranges overlap)".

*==An actual measurement range

Article 2, Paragraph 1, Item54

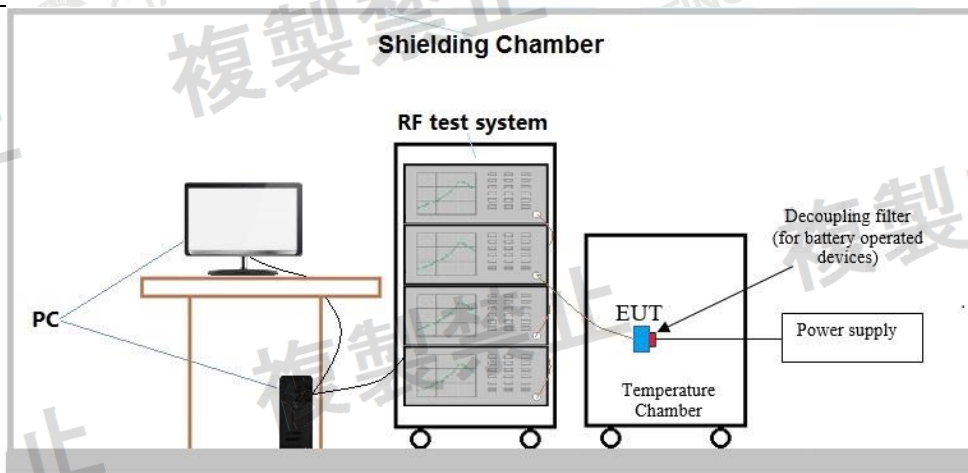
Transmission System		Technical Requirement
Transmission by the "one" carrier or	2.5MHz	*Cf ± (1.25 - 3.75) MHz : 2dBm/2.5MHz
	5MHz	*Cf ± (2.5 - 7.5) MHz : 2dBm/5MHz
Simultaneous transmission by the non-continuous "multiple" carrier(*)	10MHz	*Cf ± (5 - 15) MHz : 2dBm/10MHz
	20MHz	*Cf ± (10 - 30) MHz : 3dBm/20MHz
Simultaneous transmission by the continuous "two" carrier	5MHz & 5MHz	*Cf ± (4.9 - 14.7) MHz : 2dBm/9.8MHz
	5MHz & 10MHz	*Cf ± (7.475 - 22.425) MHz : 2.87dBm/14.95MHz
	10MHz & 10MHz	*Cf ± (9.95 - 29.85) MHz : 3dBm/19.9MHz
	5MHz & 20MHz	*Cf ± (12.475 - 37.425) MHz : 3.97dBm/24.95MHz
	10MHz & 20MHz	*Cf ± (14.95 - 44.85) MHz : 4.76dBm/29.9MHz
	20MHz & 20MHz	*Cf ± (19.9 - 59.7) MHz : 6dBm/39.8MHz

*Simultaneous transmission by the non-continuous "multiple" carrier

1. "Frequency higher than the highest frequency in the transmitting multiple carriers at same time" : It will apply the value corresponding to the transmission system of the carriers of the highest frequency.
 "Frequency lower than the lowest frequency in the transmitting multiple carriers at same time" : It will apply the value corresponding to the transmission system of the carriers of the lowest frequency.

2. "Frequencies between the transmitting multiple carriers at the same time" applies "values for the each carriers(each value if the ranges overlap)".

*=An actual measurement range

TEST SETUP

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MEASUREMENT METHOD

According to ts-136 521-1: LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing. The initial test configurations consist of test frequencies, and channel bandwidths based on E-UTRA bands

specified in table: Test Parameters For Channel Bandwidths					
	DownLink Configuration	UpLink Configuration			
CH BW	N/A for ACLR testing	Mode		RB Allocation	
				FDD	TDD
5M		QPSK	16QAM	25	25
5M		QPSK	16QAM	8	8
10M		QPSK	16QAM (Not 3)	50	50
10M		QPSK	16QAM	12	12
15M		QPSK	16QAM (Not 3)	75	75
15M		QPSK	16QAM	16	16
20M		QPSK	16QAM (Not 3)	100	100
20M	QPSK	16QAM	18	18	
Note 1: Test Channel Bandwidths are checked separately for each E-UTRA band, which applicable channel bandwidths are specified in Table 5.4.2.1-1.					
Note 2: The RB _{start} of partial RB allocation shall be RB#0 and RB# (max + 1 - RB allocation) of the channel bandwidth.					
Note 3: Applies only for UE-Categories 2-5					

TEST PROCEDURES

1. The SS sends continuously Up power control commands to the UE until the UE transmitter power reaches maximum level.
2. Measure the RRC filtered mean power.
3. Measure the RRC filtered mean power of the first adjacent channels and the second adjacent channels.
4. Calculate the ratio of the power between the values measured in 2) and 3) above.

MEASUREMENT RESULT

Please refer to MIC Appendix RF Test Data for LTE Band 1, MIC Appendix RF Test Data for LTE Band 3, MIC Appendix RF Test Data for LTE Band 5, MIC Appendix RF Test Data for LTE Band 8, MIC Appendix RF Test, MIC Appendix RF Test Data for LTE Band 34, MIC Appendix RF Test Data for LTE Band 38, MIC Appendix RF Test Data for LTE Band 40, MIC Appendix RF Test Data for LTE Band 41.

3.6 UNWANTED EMISSION STRENGTH IN THE SPURIOUS DOMAIN

Limit

Article 2 Paragraph 1 Item 11-19

Frequency range	700MHz Band (715 ~ 718 MHz)	700MHz Band (718 ~ 748 MHz)	800MHz Band (815 ~ 845 MHz)	900MHz Band (900 ~ 915 MHz)	1.5GHz Band (1,427.9 ~ 1,462.9 MHz)	1.7GHz Band (1,710.0 ~ 1,760.0 MHz)	1.7GHz Band (1,750.0 ~ 1,785.0 MHz)	2GHz Band (1,920.0 ~ 1,980.0 MHz)
9 kHz – 150 kHz	-36dBm/1kHz							
150 kHz – 30 MHz	-36dBm/10kHz							
30 – 1,000 MHz except as (*)	-36dBm/100kHz							
470 – 710 MHz (*)	-36dBm/100kHz	-26.2dBm/5MHz (3MHz : -36dBm/100kHz)	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz
770 – 773 MHz (*)	-32dBm/MHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz
773 – 803 MHz (*)	-50dBm/MHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz	-50dBm/MHz	-36dBm/100kHz	-36dBm/100kHz
860 – 890 MHz (*)	-50dBm/MHz	-40dBm/MHz	-40dBm/MHz	-40dBm/MHz (3MHz : -36dBm/100kHz)	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz
945 – 960 MHz (*)	-50dBm/MHz	-36dBm/100kHz	-50dBm/MHz	-36dBm/100kHz	-50dBm/MHz	-36dBm/100kHz	-36dBm/100kHz	-36dBm/100kHz
1,000 – 12,750 MHz except as (*)	-30dBm/MHz							
1,475.9 – 1,496.8 MHz (*)	-50dBm/MHz	-30dBm/MHz (*)	-50dBm/MHz	-50dBm/MHz	-35dBm/MHz (5MHz : -30dBm/MHz)	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz
1,496.8 – 1,510.9 MHz (*)	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-35dBm/MHz (5MHz : -30dBm/MHz)	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz
1,805.0 – 1,845.0 MHz (*)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz
1,845.0 – 1,880.0 MHz (*)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-50dBm/MHz	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz
1,884.5 – 1,915.7 MHz (*)	-41dBm/300kHz	-41dBm/300kHz	-41dBm/300kHz	-41dBm/300kHz	-41dBm/300kHz	-41dBm/300kHz	-41dBm/300kHz	-41dBm/300kHz
2,010.0 – 2,025.0 MHz (*)	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz
2,110.0 – 2,144.4 MHz (*)	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz	-50dBm/MHz
2,144.4 – 2,170.0 MHz (*)	-30dBm/MHz (*)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
2,330.0 – 2,370.0 MHz (*)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3,400.0 – 3,419.3 MHz (*)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz
3,419.3 – 3,500.7 MHz (*)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3,500.7 – 3,574.7 MHz (*)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz
3,574.7 – 3,590.3 MHz (*)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3,590.3 – 3,600.0 MHz (*)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
3,600.0 – 4,100.0 MHz (*)	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz
4,500.0 – 4,900.0 MHz (*)	-50dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz	-30dBm/MHz

Note1, Transmission by the "one" carrier

3MHz System : applies to the frequency range of over 7.5 MHz from center frequency. However, () is excluded.

5MHz System : applies to the frequency range of over 12.5 MHz from center frequency. However, () is excluded.

10MHz System : applies to the frequency range of over 20.0 MHz from center frequency. However, () is excluded.

15MHz System : applies to the frequency range of over 27.5 MHz from center frequency. However, () is excluded.

20MHz System : applies to the frequency range of over 35.0 MHz from center frequency. However, () is excluded.

Note2, Simultaneous transmission by the continuous "two" carrier

5MHz & 5MHz : applies to the frequency range of over 19.7 MHz from the center frequency (The sum of the frequency band of a continuous carrier). However, () is excluded.

5MHz & 10MHz : applies to the frequency range of over 27.425 MHz from the center frequency (The sum of the frequency band of a continuous carrier). However, () is excluded.

5MHz & 15MHz : applies to the frequency range of over 34.7 MHz from the center frequency (The sum of the frequency band of a continuous carrier). However, () is excluded.

10MHz & 10MHz : applies to the frequency range of over 34.85 MHz from the center frequency (The sum of the frequency band of a continuous carrier). However, () is excluded.

Note3, Simultaneous transmission by the non-continuous "multiple" carrier

Applies the allowable value of this table to each carrier (if the frequency ranges overlap : The value of either carrier). However, it does not apply to the case of overlap in the frequency range of "Unwanted Emission Strength / Outband Area" was according to the channel spacing of the other carrier in the transmitting multiple carriers at the same time.

Article 2 Paragraph 1 Item 11-21

Frequency range	2GHz Band (2,010 ~ 2,025 MHz)	2.3GHz Band (2,330 ~ 2,370 MHz)	3.5GHz Band (3,400 ~ 3,600 MHz)
9 kHz – 150 kHz	-36dBm/1kHz		
150 kHz – 30 MHz	-36dBm/10kHz		
30 – 1,000 MHz (except as *)	-36dBm/100kHz		
*773 – 803 MHz	-	-50dBm/MHz	-
*860 – 890 MHz	-	-50dBm/MHz	-
*945 – 960 MHz	-	-50dBm/MHz	-
1,000 – 12,750 MHz (except as *)	-30dBm/MHz		
*1,475.9 – 1,510.9 MHz	-	-50dBm/MHz	-
*1,805.0 – 1,845.0 MHz	-	-50dBm/MHz	-
*1,845.0 – 1,880.0 MHz	-	-50dBm/MHz	-
*1,884.5 – 1,915.7 MHz	-41dBm/300kHz	-41dBm/300kHz	-
*2,010.0 – 2,025.0 MHz	-	-50dBm/MHz	-
*2,110.0 – 2,170.0 MHz	-	-50dBm/MHz	-
*3,400.0 – 4,100.0 MHz	-	-50dBm/MHz	-
*4,500.0 – 4,900.0 MHz	-	-50dBm/MHz (Note.4) -30dBm/MHz	-
12,750.0 – 18,000.0 MHz	-	-	-30dBm/MHz

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Article 2, Paragraph 1, Item54

Measurement Frequency range	Technical Requirement
9 kHz – 150 kHz	-13dBm/kHz
150 kHz – 30 MHz	-13dBm/10kHz
30 – 1,000 MHz	-13dBm/100kHz
1,000 MHz - 2,505 MHz	-13dBm/MHz
2,505 MHz - 2,530 MHz	-30dBm/MHz
2,530 MHz - 2,535 MHz	-25dBm/MHz
2,535 MHz - 2,655 MHz	-30dBm/MHz
2,655 MHz - 13.5GHz	-13dBm/MHz

1. Transmission by the "one" carrier

2.5MHz System : applies to the frequency band of "6.25 MHz or more" from center frequency.

5MHz System : applies to the frequency band of "12.5 MHz or more" from center frequency.

10MHz System : applies to the frequency band of "25 MHz or more" from center frequency.

20MHz System : applies to the frequency band of "50 MHz or more" from center frequency.

2. Simultaneous transmission by the continuous "two" carrier

5MHz & 5MHz System : applies to the frequency band of "19.7 MHz or more" from center frequency (of transmission frequency range of continuous "two" carrier).

5MHz & 10MHz System : applies to the frequency band of "27.425 MHz or more" from center frequency.

10MHz & 10MHz System : applies to the frequency band of "34.85 MHz or more" from center frequency.

5MHz & 20MHz System : applies to the frequency band of "42.425 MHz or more" from center frequency.

10MHz & 20MHz System : applies to the frequency band of "49.85 MHz or more" from center frequency.

20MHz & 20MHz System : applies to the frequency band of "64.7 MHz or more" from center frequency.

3. Simultaneous transmission by the non-continuous "multiple" carrier

* "Frequency higher than the highest frequency in the transmitting multiple carriers at same time" : It will apply the value corresponding to the transmission system of the carriers of the highest frequency.

"Frequency lower than the lowest frequency in the transmitting multiple carriers at same time" : It will apply the value corresponding to the transmission system of the carriers of the lowest frequency.

* "Frequencies between the transmitting multiple carriers at the same time" applies "values for the each carriers(each value if the ranges overlap)". However, it does not apply to the case of overlap in the frequency range of "Adjacent Channel Leakage Power" or "Unwanted Emission Strength / Outband Area" was according to the channel spacing of the other carrier at the Simultaneous transmission.

MEASUREMENT METHOD

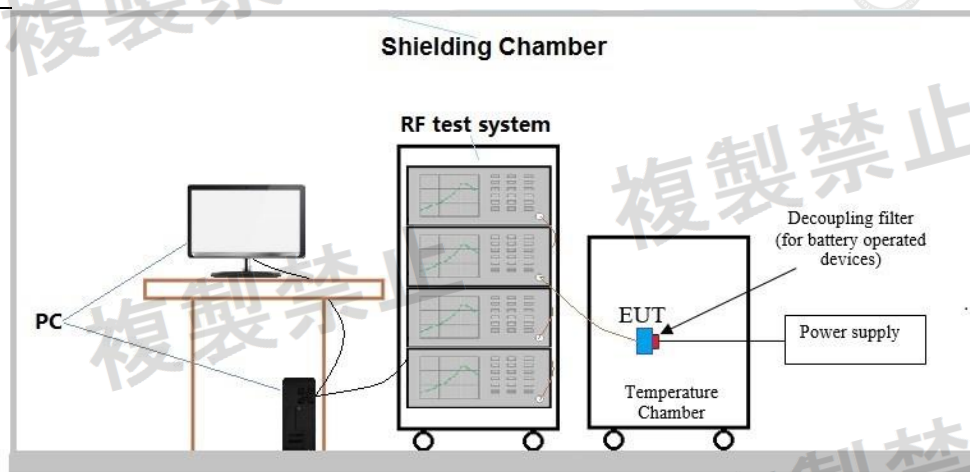
According to ts-136 521-1: LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing. The initial test configurations consist of test frequencies, and channel bandwidths based on E-UTRA bands specified in table

Test Parameters For Channel Bandwidths				
CH BW	DownLink Configuration	UpLink Configuration		
	N/A For Occupied Bandwidth	Mode	RB Allocation	
			FDD	TDD
5M		QPSK	25	25
5M		QPSK	1	1
10M		QPSK	50	50
10M		QPSK	1	1
15M		QPSK	75	75
15M		QPSK	1	1
20M		QPSK	100	100
20M		QPSK	1	1

Note 1: Test channel bandwidths are checked separately for each E-UTRA band, which applicable channel bandwidths are specified in table 5.4.2.1-1

Note 2: The 1RB allocation shall be tested at both RB#1 and RB#max, RB#1 The worst.

TEST SETUP



TEST PROCEDURES

1. Set and send continuously up power control commands to the UE until the UE output power shall be maximum level.
 2. Sweep the spectrum analyser (or equivalent equipment) over a frequency range and measure the average power of spurious emission.
- Note: all the test use the filter to filter the fundamental power, so the fundamental power do not display on the test plots.

TEST RESULTS

Please refer to MIC Appendix RF Test Data for LTE Band 1, MIC Appendix RF Test Data for LTE Band 3, MIC Appendix RF Test Data for LTE Band 5, MIC Appendix RF Test Data for LTE Band 8, MIC Appendix RF Test, MIC Appendix RF Test Data for LTE Band 34, MIC Appendix RF Test Data for LTE Band 38, MIC Appendix RF Test Data for LTE Band 40, MIC Appendix RF Test Data for LTE Band 41.

3.7 LEAKAGE POWER AT NO-CARRIER TRANSMISSION

Limit

Article 2 Paragraph 1 Item 11-19

Item	Limits
3MHz system	-48.5dBm/2.7MHz
5MHz system	-48.5dBm/4.5MHz
10MHz system	-48.5dBm/9MHz
15MHz system	-48.5dBm/13.5MHz
20MHz system	-48.5dBm/18MHz

Article 2 Paragraph 1 Item 11-21

Item	Limits		
	2GHz Band	2.3 GHz Band	3.5GHz Band
5MHz system	-48.5dBm/4.5MHz	-48.2 dBm/4.5MHz	-48.2dBm/4.5MHz
10MHz system	-48.5dBm/9MHz	-48.2 dBm/9MHz	-48.2dBm/9MHz
15MHz system	-48.5dBm/13.5MHz	-48.2 dBm/13.5MHz	-48.2dBm/13.5MHz
20MHz system	--	-48.2 dBm/18MHz	-48.2dBm/18MHz

Article 2, Paragraph 1, Item54

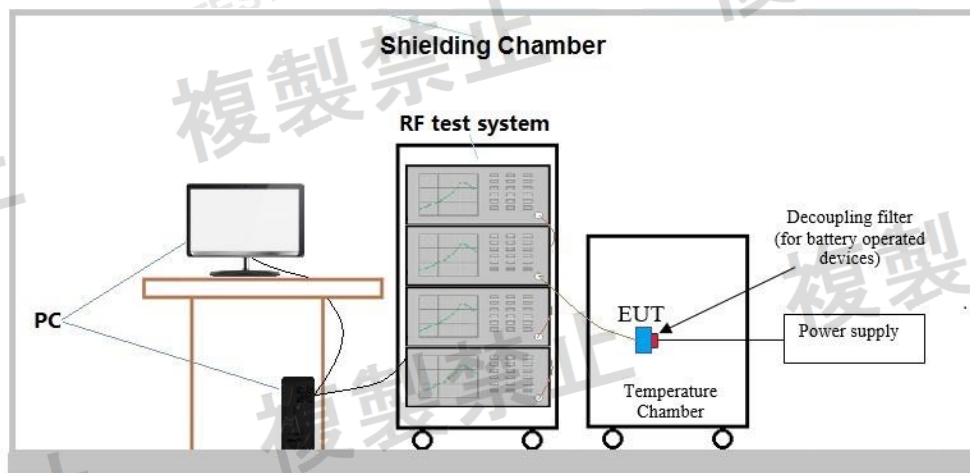
Item	Limits
5MHz system	-30dBm
10MHz system	
15MHz system	
20MHz system	

TEST PROCEDURES

It shall be set in the transmission stopping condition by means of key operation, controller or the exterior test equipment.

Sweep the transmission band and search maximum value of leak power amplitude. The reading value add 6.53dB for conversion the measuring bandwidth 1MHz to 4. 5MHz, add 9.54dB for conversion the measuring bandwidth 1MHz to 9MHz, add 11.3dB for conversion the measuring bandwidth 1MHz to 13.5MHz, add 12.55dB for conversion the measuring bandwidth 1MHz to 18MHz.

Test Setup



TEST RESULTS

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Please refer to MIC Appendix RF Test Data for LTE Band 1, MIC Appendix RF Test Data for LTE Band 3, MIC Appendix RF Test Data for LTE Band 5, MIC Appendix RF Test Data for LTE Band 8, MIC Appendix RF Test, MIC Appendix RF Test Data for LTE Band 34, MIC Appendix RF Test Data for LTE Band 38, MIC Appendix RF Test Data for LTE Band 40, MIC Appendix RF Test Data for LTE Band 41.

3.8 SECONDARY RADIATED EMISSION STRENGTH

Limit

General receiver spurious emission requirements

Article 2 Paragraph 1 Item 11-19 & Item 11-21

Frequency Band	Measurement Bandwidth	Maximum level
$30 \text{ MHz} < f < 1 \text{ GHz}$	100 kHz	-57dbm
$1 \text{ GHz} < f < 12.75 \text{ GHz}$	1 MHz	-47dbm

Article 2, Paragraph 1, Item 54

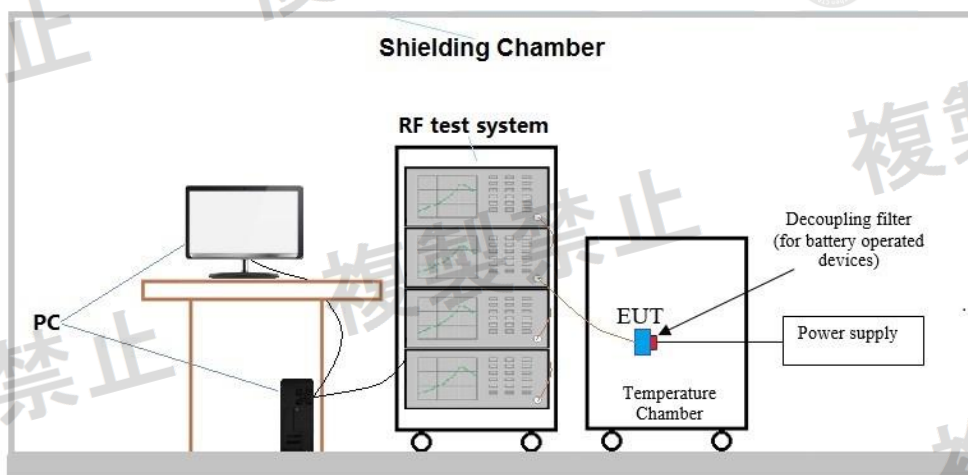
Frequency Band	Measurement Bandwidth	Maximum level
$9\text{K} < f < 150\text{K}$	1 kHz	-54dbm
$150\text{K} < f < 30 \text{ MHz}$	10 kHz	-54dbm
$30 \text{ MHz} < f < 1 \text{ GHz}$	100 kHz	-54dbm
$1 \text{ GHz} < f < 13.5 \text{ GHz}$	1 MHz	-47dbm

MEASUREMENT METHOD

According to ts-136 521-1: LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing. The initial test configurations consist of test frequencies, and channel bandwidths based on E-UTRA bands specified in table:

Test Parameters For Channel Bandwidths				
CH BW	DownLink Configuration N/A For Occupied Bandwidth	UpLink Configuration		
		Mode	RB Allocation	
			FDD	TDD
5M		QPSK	0	0
10M		QPSK	0	0
15M		QPSK	0	0
20M		QPSK	0	0

Test Setup



TEST PROCEDURES

1. Sweep the spectrum analyser (or equivalent equipment) over a frequency range and measure the average power of spurious emission.

Test RESULT

Please refer to MIC Appendix RF Test Data for LTE Band 1, MIC Appendix RF Test Data for LTE Band 3, MIC Appendix RF Test Data for LTE Band 5, MIC Appendix RF Test Data for LTE Band 8, MIC Appendix RF Test, MIC Appendix RF Test Data for LTE Band 34, MIC Appendix RF Test Data for LTE Band 38, MIC Appendix RF Test Data for LTE Band 40, MIC Appendix RF Test Data for LTE Band 41.

3.9 SYSTEM OPERATION TEST

Requirement

The transmitter of each land mobile station communicating with a base station shall be identified automatically by a base station.

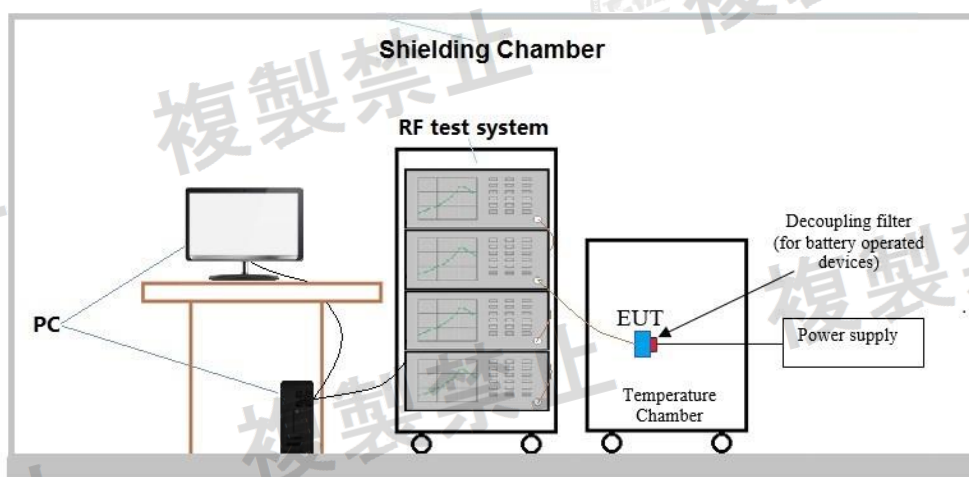
The radio equipment shall be the one in which the call channel of the base station is automatically switched to the call channel of another base station.

The area that is related to the provision of service of the base station prescribed in 1 and where field intensity necessary for providing the said service is available shall be capable of being segmentalized to suit the traffic of the said area.

The radio equipment shall have the function to separate the multi-path propagation received in temporal dispersion and improve the receive characteristics by synthesizing multi-path components.

The transmitter shall have an automatic control function to minimize the antenna received in temporal dispersion and improve the receive characteristics by base station or base on control information from a base station for the transmitter of a land mobile station.

TEST SETUP



TEST PROCEDURES

1. The test equipment to be tested shall be written with its own mobile station assigned number in advance.
2. Connect the equipment to be tested with the external test equipment and confirm the following items.
 - 1). Calling or receiving operation (including channel switching during communication)
 - 2). Number of mobile read operation
 - 3). antenna power degradation behavior (An automatic control function to minimize the antenna power as low as necessary by means of measuring receiving power of radio wave from base station).

TEST RESULT

PASS

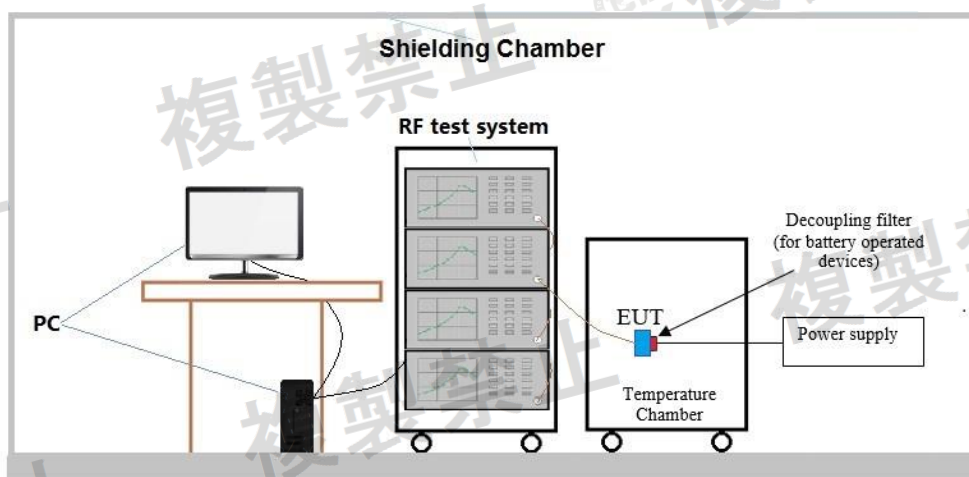
3.10 Transmission Burst Length

LIMIT

Article 2, Paragraph 1, Item54

Base Station : Land Mobile Station
M x 625 μ s or less : N x 625 μ s or less (*1)
P x 1000 μ s or less : Q x 1000 μ s or less (*2)
(*1) "M" and "N" are natural numbers. "M + N" = 4, 8, or 16.
(*2) "P" and "Q" are positive number with a decimal point. "P + Q" = 5 or 10.
*When radio wave of 2575 - 2580MHz is used, the same transmission burst length as a base station and a land mobile station to using 2545 - 2575MHz can be used.
*When radio wave of 2590 - 2595MHz is used, the same transmission burst length as a base station and a land mobile station to using 2595 - 2625MHz can be used.

MEASUREMENT SETUP



TEST PROCEDURE

1. The EUT's antenna output port was connected to the test system and establish a connection with Wideband communication tester.
2. Set EUT at maximum power through communication tester.
3. Spectrum analyzer setting as follow:

Center frequency	Test frequency
Span Frequency	0Hz
RBW/VBW	8MHz/8MHz
Y-axis scale	10dB/Div
Detector	Positive Peak
Trigger	Level rise

TEST RESULTS

Passed

☒ Pass ☐ Not Applicable

Please refer to MIC Appendix RF Test Data for LTE Band 38, MIC Appendix RF Test Data for LTE Band 41.

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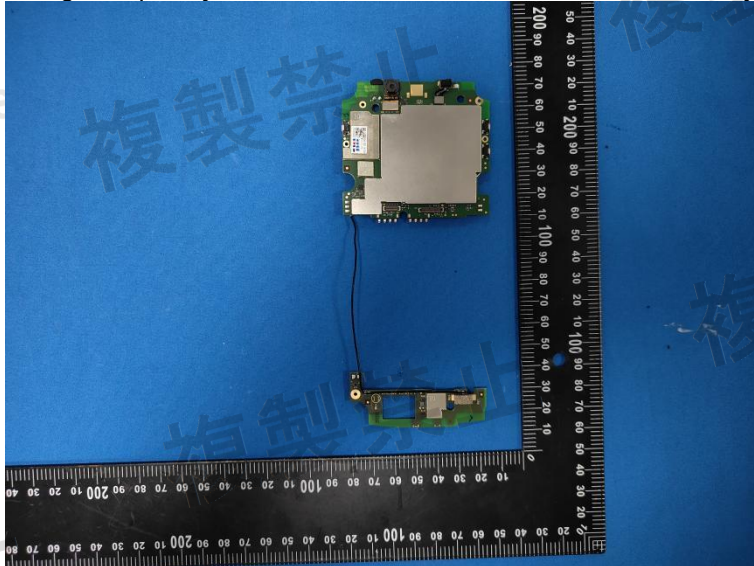
3.11 CONSTRUCTION PROTECTION CONFIRMATION

Limit

Radio equipment of the high frequency part and modulated part and antenna The system can not be easily open.

Structure diagram

all high-frequency section and modulation section was shielded by metal shield.



Structure protection described

Our products apply for Japanese radio frequency (rf) certification. We use the following methods to prevent unauthorized access and modification of RF and modulation parts. This wireless module uses a shielding cover to prevent users from disassembling and modifying it. For more information, see the following photo.

TEST RESULT

PASS

3.12 CARRIER SENSING FUNCTION

TEST REQUIREMENT

Article 2 Paragraph 1 of Item 21-3

Digital Cordless Telephone in TD-OFDMA method:

	1.4MHz system	5MHz system
When the "master unit" acts as a substitute for the carrier sense of the "slave unit"	In the transmit channel & corresponding receive channel, received power of radio waves emitted by radio stations other than the communication partner : -68dBm* (continuas two or more frames)	In the transmit channel & corresponding receive channel, received power of radio waves emitted by radio stations other than the communication partner : -64dBm* (continuas two or more frames)
When the "slave unit" and the "master unit" each perform carrier sense	In the transmit channel & corresponding receive channel, received power of radio waves emitted by radio stations other than the communication partner : -62dBm* (continuas two or more frames)	In the transmit channel & corresponding receive channel, received power of radio waves emitted by radio stations other than the communication partner : -56dBm* (continuas two or more frames)
Master Unit	Received power of the control channels (1898.45 or 1900.25MHz only) of the digital cordless telephone : -75dBm*	Received power of the control channels (1898.45 or 1900.25MHz only) of the digital cordless telephone : -82dBm*

TEST PROCEDURE

Setting of measuring instruments

(1) Set the standard signal generator as follows.

Signal frequency center frequency etc. of the transmission frequency band of the test equipment etc. (Note 1)
Modulation unmodulated Output level Test equipment -62 dBm at the receiving input terminal of the antenna (Note 2)

(2) Set spectrum analyzer as follows.

Center frequency 1, 899.35 MHz, Sweep frequency width 10 MHz, Resolution bandwidth 100 kHz,
About 3 times the video bandwidth resolution bandwidth, Y axis scale 10 dB / Div, Trigger condition free run,
Detection mode Positive peak

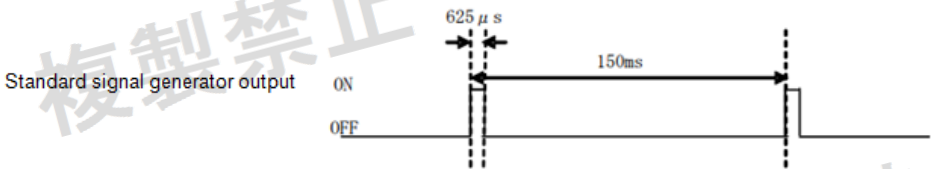
(3) Confirming the transmission impossible state To set the pulse signal generator, set the standard signal generator output to 15 ms off, And is a signal that is on for 4 s or longer. However, if it is the parent machine and the circumference of 1,898.15 MHz or 1,900.55 MHz

When trying to emit a radio wave with a wave number, the standard signal generator output is turned on for 625 μ s at a cycle of 150 ms

It is assumed to be a signal to be returned (see below plot).

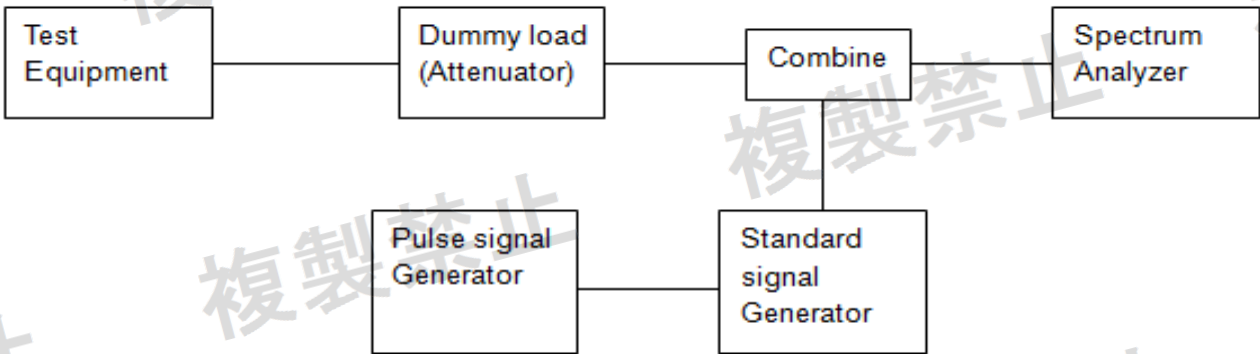


(1) Test device transmission impossible setting



(2) Test equipment transmission impossible setting
(when it is trying to fire a radio wave with a frequency of 1,898.15 MHz or 1,900.55 MHz as the parent machine)

TEST SETUP



TEST RESULT

Not applicable

3.13 IDENTIFICATION CODE

TEST REQUIREMENT

Article 2 Paragraph 1 of Item 21-3

Digital Cordless Telephone in TD-OFDMA method:

The radio waves shall not be emitted unless the following identification code is stored, and communication shall be established by transmitting and receiving the identification code.

Master unit: Decimal number starting from [44190](5 digits or more)

Slave unit: Decimal number starting from [44190](not exceed 15 digits)

TEST PROCEDURE

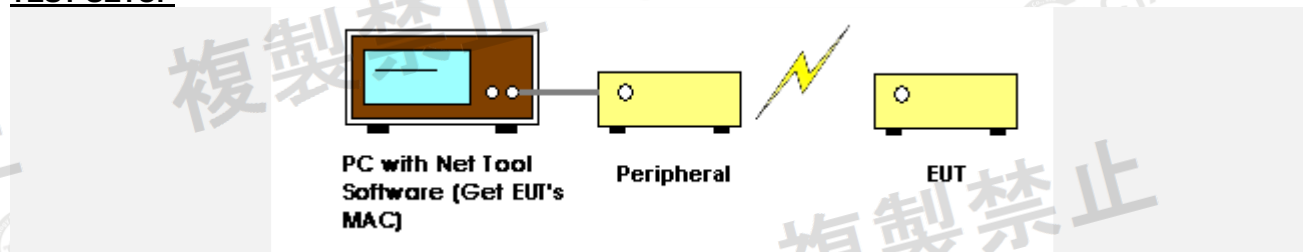
1. In the case that the EUT has the function of automatically transmitting the identification code:

- Transmit the predetermined identification codes from EUT.
- Check the transmitted identification codes with the demodulator.

2. In the case of receiving the identification code:

- Transmit the predetermined identification codes from the counterpart.
- Check if communication is normal.
- Transmit the signals other than predetermined ID codes from the counterpart.
- check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

TEST SETUP



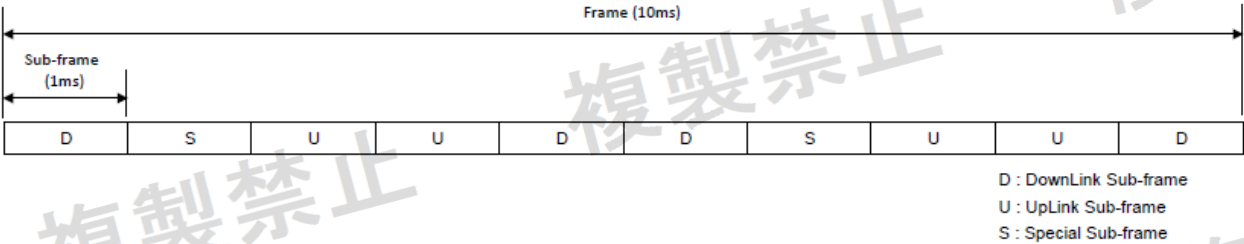
TEST RESULT

Not applicable

3.14 Frame Construction

TEST REQUIREMENT

Article 2 Paragraph 1 of Item 21-3
Digital Cordless Telephone in TD-OFDMA method:



TEST PROCEDURE

Note: The test procedure please refer to Article 49-8-2-3.

TEST RESULT

Not applicable

3.15 Intermodulation Characteristic

TEST REQUIREMENT

Article 2 Paragraph 1 of Item 11-21

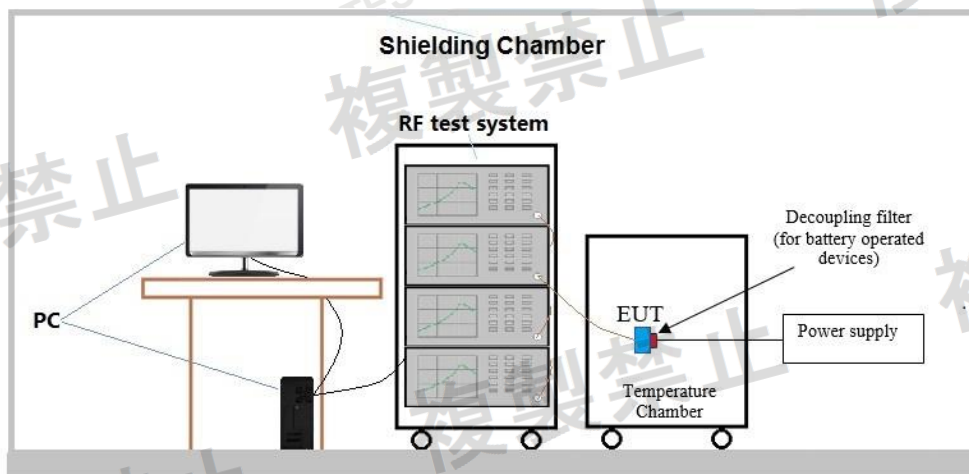
TD-LTE Land Mobile Station:

		Desire wave	Undesire wave	Actual Measurement Range	Requirement
Transmission by the "one" carrier or Simultaneous transmission by the non-continuous "multiple" carrier(*)	5MHz System	Rated Power	Frequency : Desire wave(±)5MHz, Output : -40dBc	*Cf ± (2.75 - 7.25) MHz	-29dBc/4.5MHz
			Frequency : Desire wave(±)10MHz, Output : -40dBc	*Cf ± (7.75 - 12.25) MHz	-35dBc/4.5MHz
	10MHz System	Rated Power	Frequency : Desire wave(±)10MHz, Output : -40dBc	*Cf ± (5.5 - 14.5) MHz	-29dBc/9MHz
			Frequency : Desire wave(±)20MHz, Output : -40dBc	*Cf ± (15.5 - 24.5) MHz	-35dBc/9MHz
	15MHz System	Rated Power	Frequency : Desire wave(±)15MHz, Output : -40dBc	*Cf ± (8.25 - 21.75) MHz	-29dBc/13.5MHz
			Frequency : Desire wave(±)30MHz, Output : -40dBc	*Cf ± (23.25 - 36.75) MHz	-35dBc/13.5MHz
	20MHz System	Rated Power	Frequency : Desire wave(±)20MHz, Output : -40dBc	*Cf ± (11 - 29) MHz	-29dBc/18MHz
			Frequency : Desire wave(±)40MHz, Output : -40dBc	*Cf ± (31 - 49) MHz	-35dBc/18MHz

TEST Configuration

Test Parameters for CA Configurations								
CA Configuration / N _{RB_agg}		DL Allocation	CC MOD	UL Allocation				
PCC N _{RB}	SCCs N _{RB}	PCC & SCC RB allocation		N _{RB_alloc}	PCC & SCC RB allocations (LCRB @ RB _{start})			
25	50	N/A	QPSK	8	P_8@0	S_0@0	-	-
50	50		QPSK	12	P_12@0	S_0@0	-	-
75	75		QPSK	16	P_16@0	S_0@0	-	-
100	25		QPSK	8	P_8@0	S_0@0	-	-
100	50		QPSK	12	P_12@0	S_0@0	-	-
100	100		QPSK	18	P_18@0	S_0@0	-	-
Note 1: CA Configuration Test CC Combination settings are checked separately for each CA Configuration, which applicable aggregated channel bandwidths are specified in Table 5.4.2A.1-1								
Note 2: If the UE supports multiple CC Combinations in the CA Configuration with the same N _{RB_agg} , only the combination with the highest N _{RB_PCC} is tested.								

MEASUREMENT SETUP



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TEST PROCEDURE

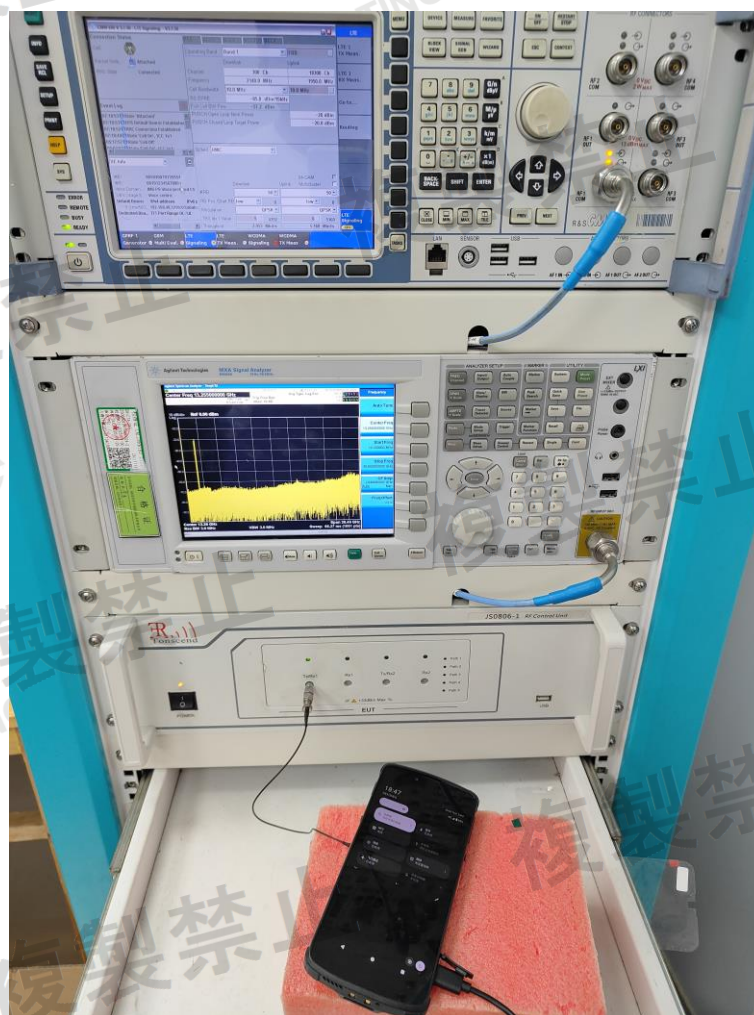
1. The EUT's antenna output port was connected to the test system and establish a connection with Wideband communication tester.
2. Set EUT at maximum power through communication tester.
3. Spectrum analyzer setting as follow:

Center frequency	Test frequency
Span Frequency	Depending on the channel spacing and detuning frequency
RBW/VBW	100KHz/1MHz
Y-axis scale	10dB/Div
Sweep mode	Continuous
Sweep point	> 400
Detector	Positive Peak
Trace mode	Max Hold
Number of sweeps	The number of times until the spectrum fluctuation disappears

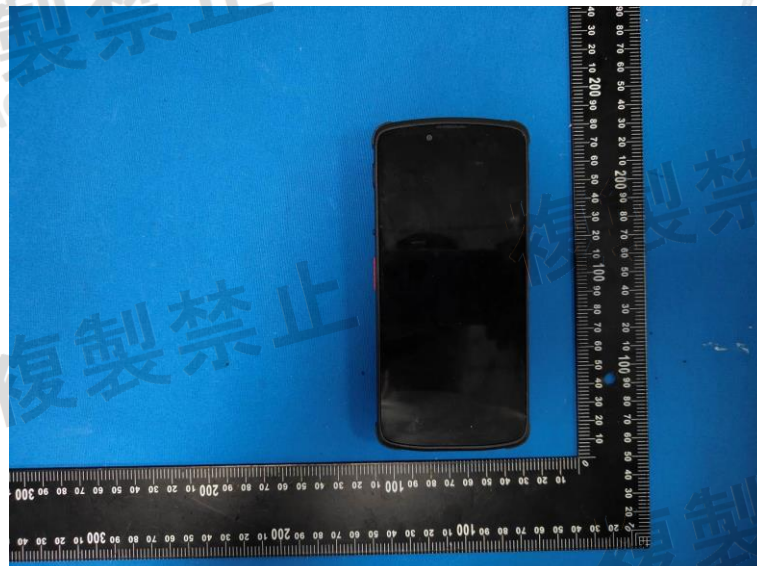
TEST RESULT

Please refer to MIC Appendix RF Test Data for LTE Band 34, MIC Appendix RF Test Data for LTE Band 40

4 Test Setup Photos of the EUT



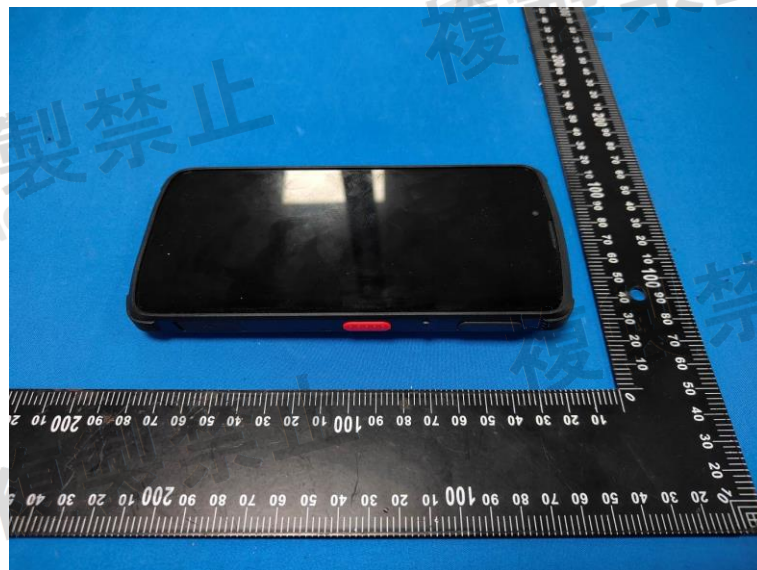
5 Photos of the EUT



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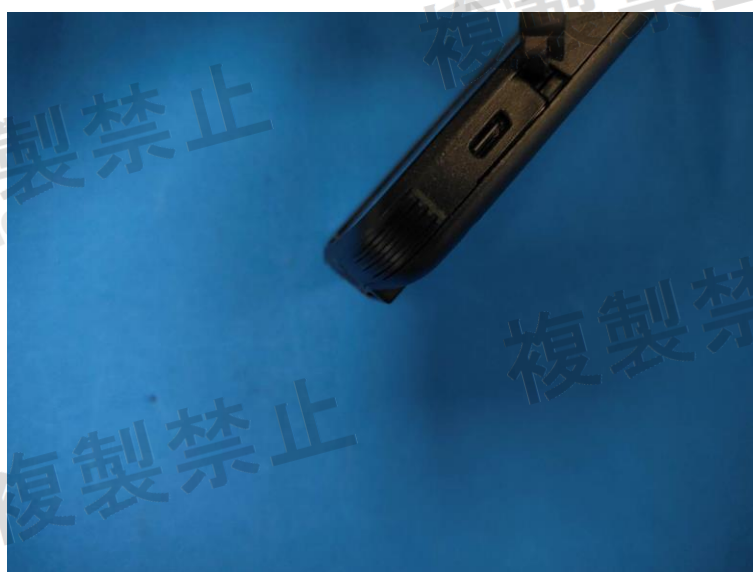
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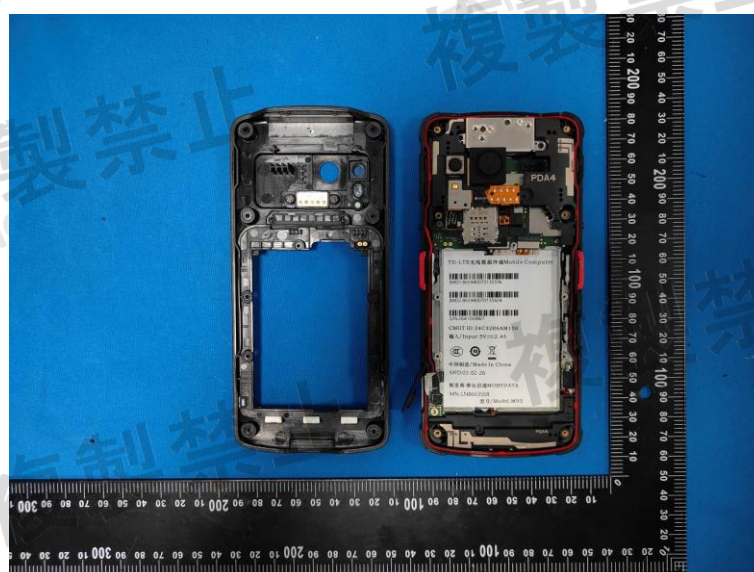
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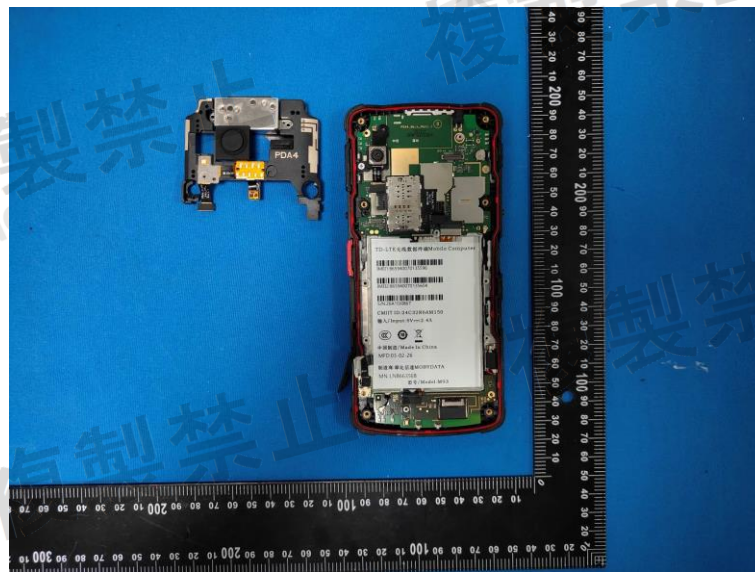


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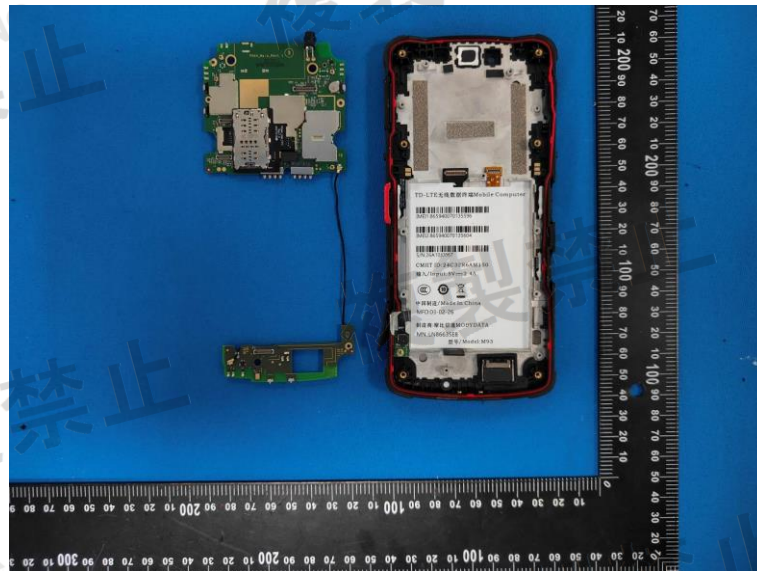
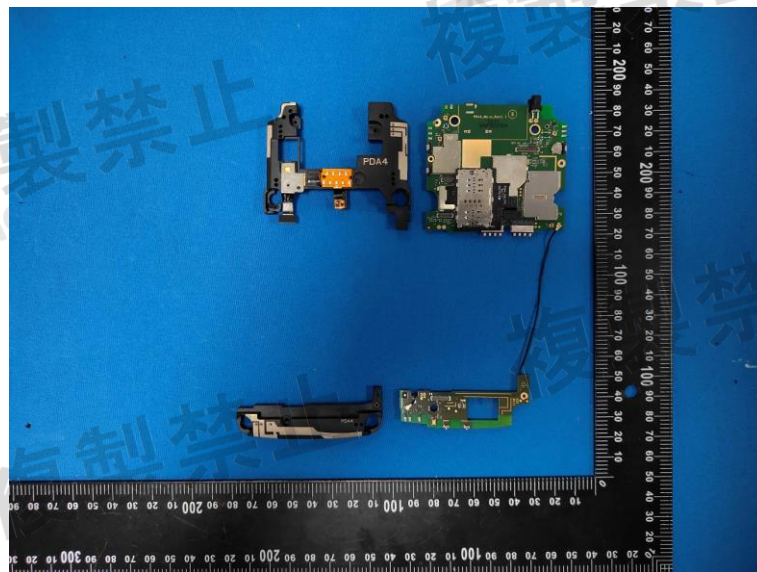
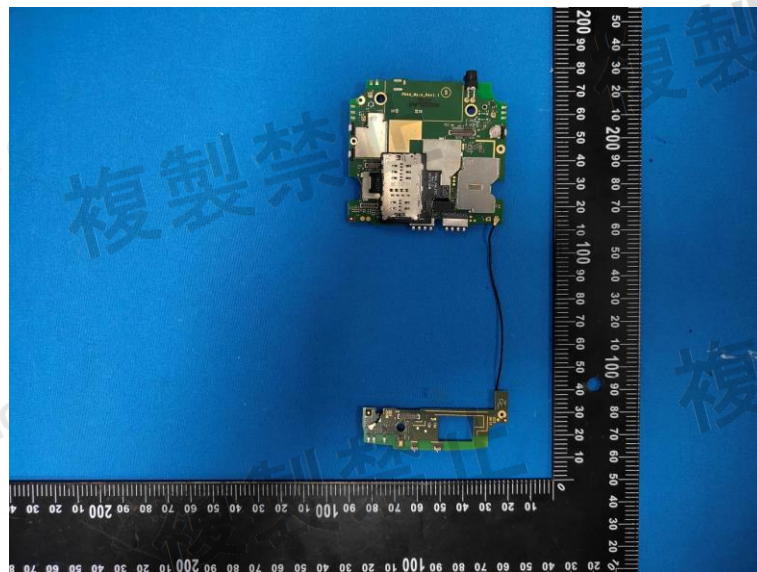


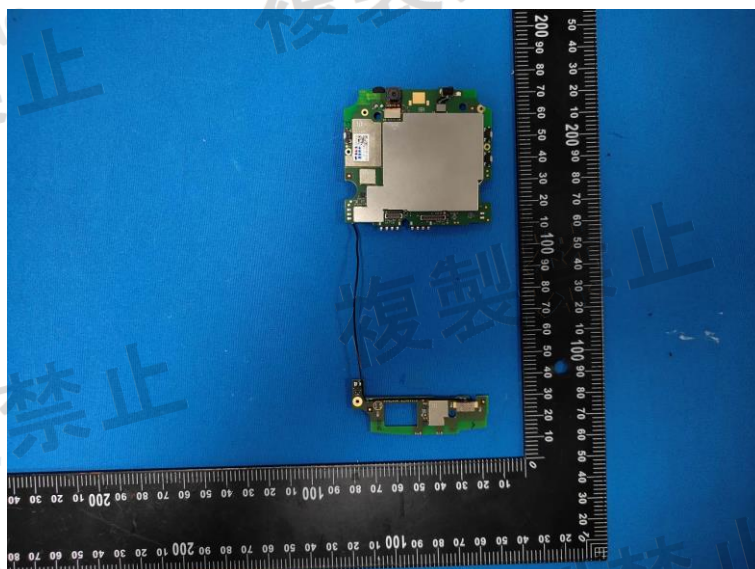
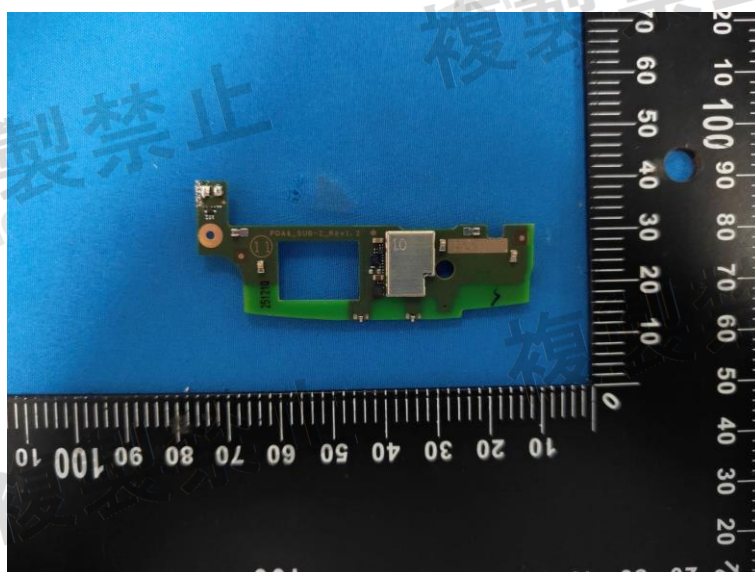
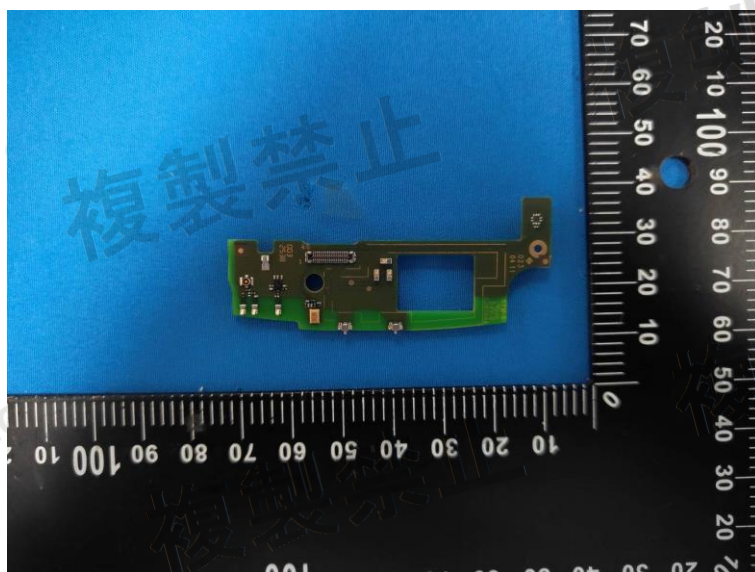


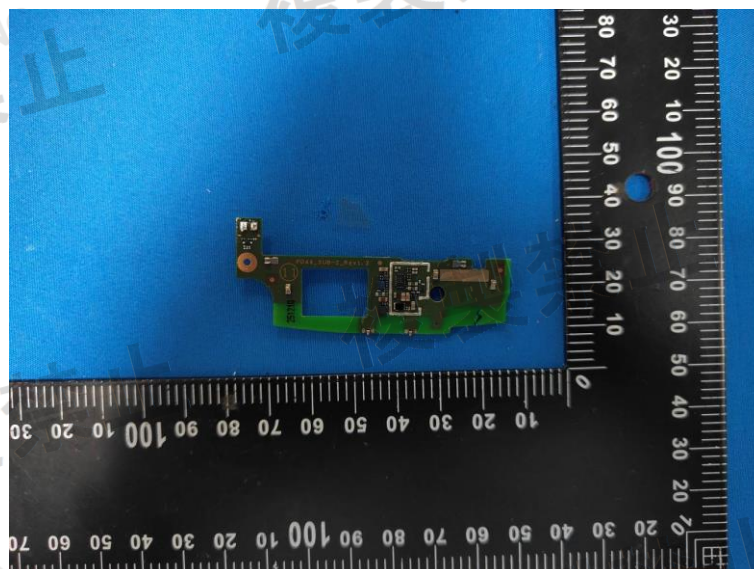
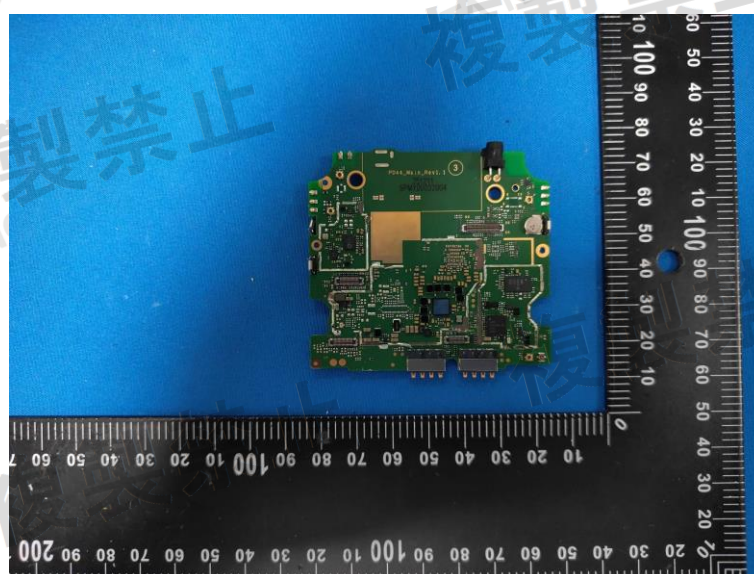
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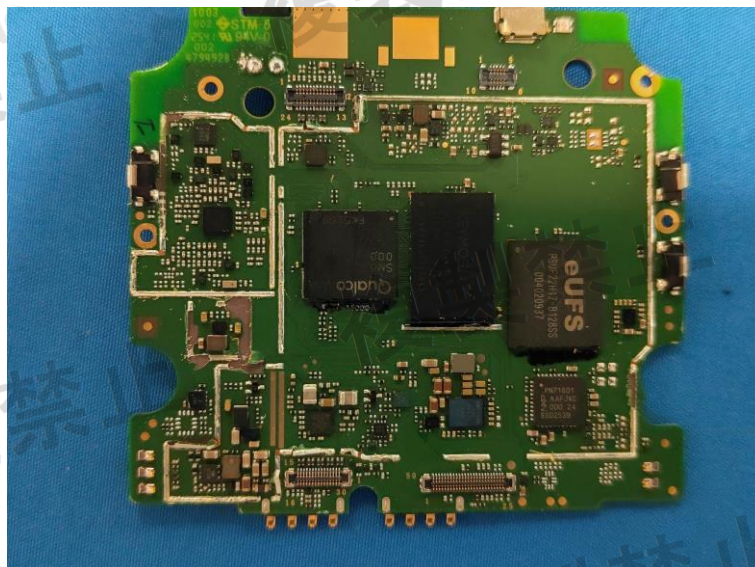
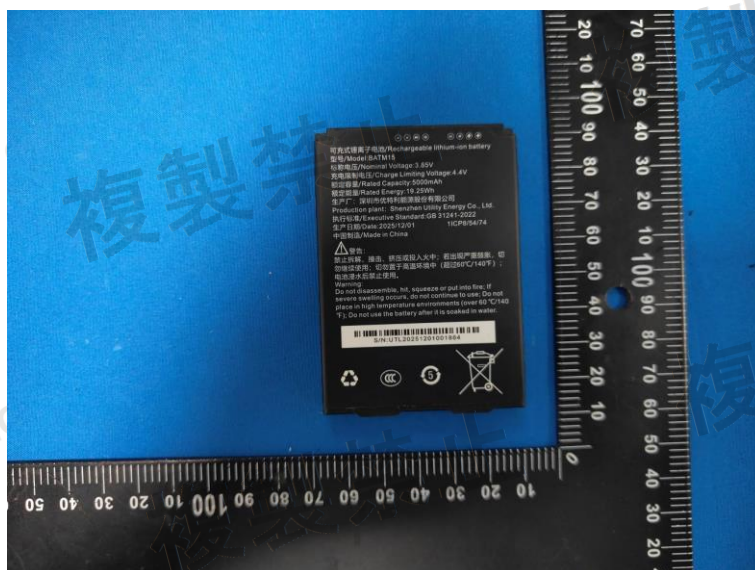




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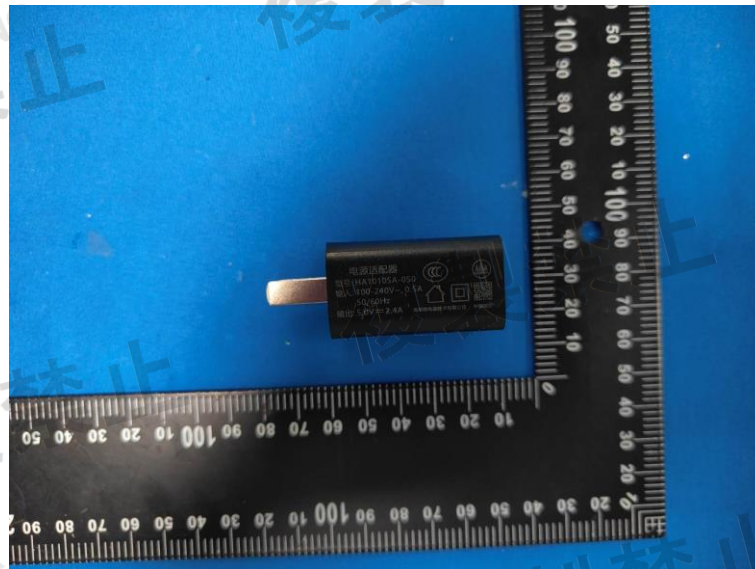
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***** End of Report *****