



RF TEST REPORT

Report No.: SZ25090313W06

Applicant : DrKumo Inc.

Product Name : Tablet

Brand Name : Drkumo

Model Name : XL100

FCC ID : 2BP5Q-XL100

Test Standard : 47 CFR Part 2;47 CFR Part 22;47 CFR Part 24;
47 CFR Part 27, 90S

Date of Sample Arrival : 2025.06.09

Date of Test : 2025.06.10-2025.08.20

Issue Date : 2025.08.21



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REVISION HISTORY

Change History		
Version	Date	Reason for change
1.0	2025-09-09	First edition

SUMMARY OF TEST RESULT

For Band2

Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 24.232	EIRP $\leq$ 2 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046, 24.232	Limit $\leq$ 13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055, 24.235	$\leq \pm 2.5$ ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 24.238	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 24.238	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 24.238	≤ -13 dBm/1 MHz.	Pass	/
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

For Band4 and LTE Band66

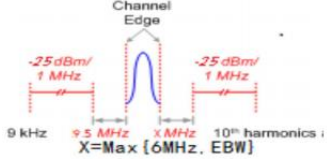
Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 27.50(d)	EIRP $\leq$ 1 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046, 27.50(d)	Limit $\leq$ 13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055, 27.54	$\leq \pm 2.5$ ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(h)	≤ -13 dBm/1 MHz.	Pass	/

Note1:

For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 22.913 (a)	ERP $\leq$ 7 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046, 22.913 (a)	Limit $\leq$ 13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055, 22.355	$\leq \pm 2.5$ ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 22.917	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 22.917	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 22.917	≤ -13 dBm/1 MHz.	Pass	/
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

For Band7 and Band41

Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 27.50(h)	$EIRP \leq 2 \text{ W}$	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046 27.50(h)	Limit $\leq 13 \text{ dB}$	Pass	Appendix C2
Frequency Stability	Part 2.1055, 27.54	$\leq \pm 2.5 \text{ ppm.}$	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 27.53(m)		Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 27.53(m4)	For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P) \text{ dB}$ on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P) \text{ dB}$ on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P) \text{ dB}$ on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(m)	$\leq -25 \text{ dBm/1 MHz.}$	Pass	/
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 27.50(c)	ERP $\leq$ 3 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046, Part 27.50(c)	Limit $\leq$ 13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055 27.54	$\leq \pm 2.5$ ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 27.53(g)	≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(g)	≤ -13 dBm/1 MHz.	Pass	/
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

Test Item	FCC Rule No.	Limit	Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 27.50(c)	ERP $\leq$ 3 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046, Part 27.50(c)	Limit $\leq$ 13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055 27.54	$\leq \pm 2.5$ ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 27.53(g)	≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(g)	≤ -13 dBm/1 MHz.	Pass	/
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Effective (Isotropic) Radiated Power Output Data	Part 27.50(c)	ERP $\leq$ 3 W	Pass	Appendix C1
Peak-Average Ratio	Part 2.1046, Part 27.50(c)	Limit $\leq$ 13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055 27.54	$\leq \pm 2.5$ ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 27.53(g)	≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(g)	≤ -13 dBm/1 MHz.	Pass	/
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Peak-Average Ratio	Part 2.1046, Part 27.50(c)	Limit $\leq$ 13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055 27.54	$\leq \pm 2.5$ ppm.	Pass	Appendix C3
Occupied Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass	Appendix C4
Spurious Emission at Antenna Terminals	Part 2.1051, 27.53(g)	≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Pass	Appendix C5
Band Edges Compliance	Part 2.1051, 27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass	Appendix C6
Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(g)	≤ -13 dBm/1 MHz.	Pass	/
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Peak-Average Ratio	Part 2.1046, Part 27.50(c)	Limit $\leq$ 13 dB	Pass	Appendix C2
Frequency Stability	Part 2.1055 27.54	$\leq \pm 2.5$ ppm.	Pass	Appendix C3
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Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(g)	≤ -13 dBm/1 MHz.	Pass	/
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

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Frequency Stability	Part 2.1055 27.54	$\leq \pm 2.5$ ppm.	Pass	Appendix C3
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Modulation Characteristics	Part 2.1047	Digital modulation	Pass	Appendix C7
Radiated Spurious Emissions	Part 2.1053, 27.53(g)	≤ -13 dBm/1 MHz.	Pass	/
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				



1. GENERAL DESCRIPTION

1.1. Applicant

Name : DrKumo Inc.

Address : 6850 Lincoln Ave. STE 102 Buena Park, CA 90620, USA.

1.2. Manufacturer

Name : DrKumo Inc.

Address : 6850 Lincoln Ave. STE 102 Buena Park, CA 90620, USA.

1.3. General Information of EUT

General Information				
Equipment Name	Tablet			
Brand Name	Drkumo			
Model Name	XL100			
Sample No.:	1#			
Modulation Type:	QPSK, 16QAM, 64QAM			
Operation Band:	Band 2 / 4 / 5 / 7 / 12 / 13 / 25 / 26 / 30 / 38 / 41 / 66 / 71			
Frequency Range:	LTE band 2:	Tx: 1850 MHz - 1910 MHz		Rx: 1930 MHz - 1990 MHz
	LTE band 4:	Tx: 1710 MHz - 1755 MHz		Rx: 2110 MHz - 2155 MHz
	LTE band 5:	Tx: 824 MHz - 849 MHz		Rx: 869 MHz - 894 MHz
	LTE band 7:	Tx: 2500 MHz - 2570 MHz		Rx: 2620 MHz - 2690 MHz
	LTE band 12:	Tx: 699 MHz - 716 MHz		Rx: 729 MHz - 746 MHz
	LTE band 13:	Tx: 777 MHz - 787 MHz		Rx: 746 MHz - 756 MHz
	LTE band 25:	Tx: 1850 MHz - 1915 MHz		Rx: 1930 MHz - 1995 MHz
	LTE band 26:	Tx: 814 MHz - 849 MHz		Rx: 859 MHz - 894 MHz
	LTE band 30:	Tx: 2305 MHz - 2315 MHz		Rx: 2350 MHz - 2360 MHz
	LTE band 38:	Tx: 2570 MHz - 2620 MHz		Rx: 2570 MHz - 2620 MHz
	LTE band 41:	Tx: 2496 MHz - 2690 MHz		Rx: 2496 MHz - 2690 MHz
	LTE band 66:	Tx: 1710 MHz - 1780 MHz		Rx: 2110 MHz - 2200 MHz
	LTE band 71:	Tx: 663 MHz - 698 MHz		Rx: 617 MHz - 652 MHz
	Channel Bandwidth:	LTE Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz	
LTE Band 4		1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz		
LTE band 5:		1.4MHz, 3MHz, 5MHz, 10MHz		
LTE band 7:		5MHz, 10MHz, 15MHz, 20MHz		
LTE band 12:		1.4MHz, 3MHz, 5MHz, 10MHz		
LTE band 13:		5MHz, 10MHz		
LTE band 25:		1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz		
LTE band 26:		1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz		
LTE band 30:		5MHz, 10MHz		
LTE band 38:		5MHz, 10MHz, 15MHz, 20MHz		
LTE band 41:		5MHz, 10MHz, 15MHz, 20MHz		
LTE band 66:		1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz		
LTE band 71:		5MHz, 10MHz, 15MHz, 20MHz		
Antenna Type:		Internal Antenna		
Antenna Gain:	LTE band 2:	0.62 dBi	LTE band 25:	0.62 dBi
	LTE band 4:	1.28 dBi	LTE band 26:	0.52 dBi
	LTE band 5:	0.52 dBi	LTE band 30:	1.16 dBi
	LTE band 7:	1.51 dBi	LTE band 38:	1.51 dBi
	LTE band 12:	-1.13 dBi	LTE band 41:	1.51 dBi
	LTE band 13:	-0.77 dBi	LTE band 66:	1.28 dBi



	LTE band 71: -1.19 dBi	
Battery	Brand Name:	hotpepper
	Model No.:	HLP2504G50
	Serial No.:	N/A
	Capacity:	5000mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	Shenzhen Aerospace Electronic Co., Ltd.
Hardware Version	AP37_P1	
Software Version	HPP-AP37-1.0.4	
Connecting I/O Port(s)	Refer to the remark below.	

Remark:

The above information of EUT was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Equipment Specification

Standards-related Product Specification		
Frequency		
Band	Tx Frequency Range	Rx Frequency Range
☒ Band 2	1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
☒ Band 4	1710 MHz ~ 1755 MHz	2110 MHz ~ 2155 MHz
☒ Band 5	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
☒ Band 7	2500MHz ~ 2570MHz	2620MHz ~ 2690MHz
☒ Band 12	699 MHz ~ 716 MHz	728 MHz ~ 746 MHz
☒ Band 13	777 MHz ~ 787 MHz	746 MHz ~ 756 MHz
☒ Band 25	1850 MHz ~ 1915 MHz	1930 MHz ~ 1995 MHz
☒ Band 26	814 MHz ~ 849 MHz	859 MHz ~ 894 MHz
☒ Band 30	2305 MHz ~ 2315 MHz	2350 MHz ~ 2360 MHz
☒ Band 38	2570MHz ~ 2620 MHz	2570 MHz ~ 2620 MHz
☒ Band 41	2496 MHz ~ 2690 MHz	2496 MHz ~ 2690 MHz
☒ Band 66	1710 MHz ~ 1780 MHz	2110 MHz~ 2200 MHz
☒ Band 71	663 MHz ~ 698 MHz	617 MHz~ 652 MHz
Bandwidth		
Band	Bandwidth	
☒ Band 2	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz	
☒ Band 4	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz	
☒ Band 5	1.4MHz / 3MHz / 5MHz / 10MHz	
☒ Band 7	5MHz / 10MHz / 15MHz / 20MHz	
☒ Band 12	1.4MHz / 3MHz / 5MHz / 10MHz	
☒ Band 13	5MHz / 10MHz	
☒ Band 25	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz	
☒ Band 26	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz	
☒ Band 30	5MHz / 10MHz	
☒ Band 38	5MHz / 10MHz / 15MHz / 20MHz	
☒ Band 41	5MHz / 10MHz / 15MHz / 20MHz	
☒ Band 66	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz	
☒ Band 71	5MHz / 10MHz / 15MHz / 20MHz	
Antenna Gain		
Band	Antenna Gain	
☒ Band 2	0.62dbi	
☒ Band 4	1.28dbi	
☒ Band 5	0.52dbi	
☒ Band 7	1.51dbi	
☒ Band 12	-1.13dbi	
☒ Band 13	-0.77dbi	
☒ Band 25	0.62dbi	
☒ Band 26	0.52dbi	
☒ Band 30	1.16dbi	
☒ Band 38	1.51dbi	
☒ Band 41	1.51dbi	
☒ Band 66	1.28dbi	
☒ Band 71	-1.19dbi	
Maximum Output Power to Antenna		
Band	Maximum Output Power	
☒ Band 2	24.23dBm	
☒ Band 4	23.65dBm	
☒ Band 5	24.24dBm	
☒ Band 7	23.73dBm	
☒ Band 12	24.43dBm	
☒ Band 13	24.68dBm	



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☒ Band 25	24.29dBm
☒ Band 26	24.49dBm
☒ Band 30	23.59dBm
☒ Band 38	24.45dBm
☒ Band 41	27.59dBm
☒ Band 66	24.18dBm
☒ Band 71	24.52dBm
Type of Modulation	
☒ QPSK ☒ 16QAM ☒ 64QAM ☐ 256QAM	

1.5. Maximum Conducted Power and Emission Designator

☑ LTE Band 2						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
1.4	0.256	1M10G7D	0.207	1M10W7D	0.168	1M10W7D
3	0.250	2M69G7D	0.199	2M69W7D	0.153	2M69W7D
5	0.254	4M51G7D	0.199	4M51W7D	0.158	4M50W7D
10	0.255	9M00G7D	0.200	8M99W7D	0.155	8M98W7D
15	0.255	13M5G7D	0.201	13M5W7D	0.155	13M5W7D
20	0.265	18M0G7D	0.203	18M0W7D	0.169	18M0W7D
☑ LTE Band 4						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
1.4	0.226	1M10G7D	0.174	1M10W7D	0.147	1M09W7D
3	0.228	2M69G7D	0.175	2M69W7D	0.136	2M70W7D
5	0.223	4M51G7D	0.181	4M50W7D	0.155	4M49W7D
10	0.227	9M01G7D	0.182	9M00W7D	0.140	8M99W7D
15	0.220	13M6G7D	0.175	13M5W7D	0.148	13M5W7D
20	0.231	18M0G7D	0.180	18M0W7D	0.149	18M0W7D
☑ LTE Band 5						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
1.4	0.265	1M10G7D	0.206	1M10W7D	0.168	1M10W7D
3	0.257	2M69G7D	0.210	2M69W7D	0.173	2M69W7D
5	0.261	4M51G7D	0.210	4M49W7D	0.178	4M50W7D
10	0.263	8M99G7D	0.217	8M99W7D	0.179	8M99W7D
☑ LTE Band 7						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
5	0.232	4M51G7D	0.181	4M51W7D	0.155	4M50W7D
10	0.227	8M99G7D	0.186	8M99W7D	0.146	8M99W7D
15	0.221	13M5G7D	0.181	13M5W7D	0.147	13M5W7D
20	0.236	18M0G7D	0.177	18M0W7D	0.150	18M0W7D

☑ LTE Band 12						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
1.4	0.277	1M10G7D	0.232	1M10W7D	0.185	1M10W7D
3	0.275	2M69G7D	0.229	2M68W7D	0.177	2M69W7D
5	0.275	4M53G7D	0.232	4M53W7D	0.199	4M52W7D
10	0.273	9M01G7D	0.224	9M00W7D	0.176	9M01W7D
☑ LTE Band 13						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
5	0.293	4M53G7D	0.243	4M55W7D	0.209	4M52W7D
10	0.294	9M00G7D	0.241	8M98W7D	0.185	8M98W7D
☑ LTE Band 25						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
1.4	0.269	1M10G7D	0.214	1M10W7D	0.171	1M10W7D
3	0.248	2M69G7D	0.205	2M69W7D	0.157	2M69W7D
5	0.252	4M53G7D	0.200	4M54W7D	0.169	4M52W7D
10	0.253	9M02G7D	0.212	9M02W7D	0.157	9M01W7D
15	0.252	13M6G7D	0.207	13M6W7D	0.160	13M5W7D
20	0.261	18M0G7D	0.212	18M0W7D	0.180	18M0W7D
☑ LTE Band 26(Part 22H)						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
1.4	0.288	1M10G7D	0.240	1M10W7D	0.188	1M09W7D
3	0.284	2M69G7D	0.235	2M69W7D	0.192	2M69W7D
5	0.290	4M51G7D	0.231	4M49W7D	0.197	4M49W7D
10	0.281	8M99G7D	0.234	8M98W7D	0.177	8M94W7D
15	0.275	13M5G7D	0.233	13M5W7D	0.187	13M5W7D
☑ LTE Band 26(90S)						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
1.4	0.284	1M10G7D	0.223	1M10W7D	0.189	1M10W7D
3	0.277	2M69G7D	0.232	2M69W7D	0.182	2M69W7D
5	0.281	4M51G7D	0.236	4M51W7D	0.199	4M50W7D
10	0.273	8M99G7D	0.229	8M98W7D	0.174	8M98W7D

☑ LTE Band 30						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
5	0.229	4M50G7D	0.186	4M49W7D	0.157	4M49W7D
10	0.227	8M99G7D	0.139	9M00W7D	0.139	8M98W7D
☑ LTE Band 38						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
5	0.267	4M50G7D	0.226	4M49W7D	0.189	4M51W7D
10	0.279	9M00G7D	0.226	8M99W7D	0.182	8M99W7D
15	0.270	13M5G7D	0.212	13M5W7D	0.177	13M5W7D
20	0.259	18M0G7D	0.214	17M9W7D	0.172	18M0W7D
☑ LTE Band 41						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
5	0.553	4M50G7D	0.459	4M49W7D	0.366	4M50W7D
10	0.574	9M00G7D	0.470	9M01W7D	0.384	8M99W7D
15	0.398	13M5G7D	0.342	13M5W7D	0.275	13M5W7D
20	0.569	18M0G7D	0.455	17M9W7D	0.359	18M0W7D
☑ LTE Band 66						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
1.4	0.255	1M10G7D	0.198	1M10W7D	0.175	1M10W7D
3	0.244	2M70G7D	0.208	2M69W7D	0.162	2M70W7D
5	0.262	4M53G7D	0.217	4M56W7D	0.189	4M52W7D
10	0.252	9M06G7D	0.213	9M06W7D	0.166	9M03W7D
15	0.249	13M6G7D	0.210	13M6W7D	0.166	13M6W7D
20	0.256	18M1G7D	0.205	18M1W7D	0.182	18M0W7D
☑ LTE Band 71						
Bandwidth (MHz)	QPSK		☑ 16QAM / ☑ 64QAM / ☐ 256QAM			
	Maximum Conducted Power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)	Maximum Conducted power (W)	Emission Designator (99% OBW)
5	0.275	4M52G7D	0.219	4M52W7D	0.183	4M52W7D
10	0.271	9M02G7D	0.229	9M02W7D	0.177	9M02W7D
15	0.270	13M5G7D	0.219	13M5W7D	0.177	13M5W7D
20	0.283	18M0G7D	0.224	18M0W7D	0.189	18M0W7D

1.6. Modification of EUT

No modifications are made to the EUT during all test items.

1.7. Laboratory Information

1.8.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.8.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

47 CFR Part 2, 22(H), 24(E), 27(C)

ANSI C63.26-2015

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.

1.9. Environmental conditions

Temperature	Normal Temperature(NT):	25°C
	High Temperature(HT):	45°C
	Low Temperature(LT):	0°C
Voltage	Normal Voltage(NV):	3.8V
	High Voltage(HV):	4.35V
	Low Voltage(LV):	3.6V
Other	Relative Humidity	55 %
	Air Pressure	101 kPa

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

2.1. Test Mode

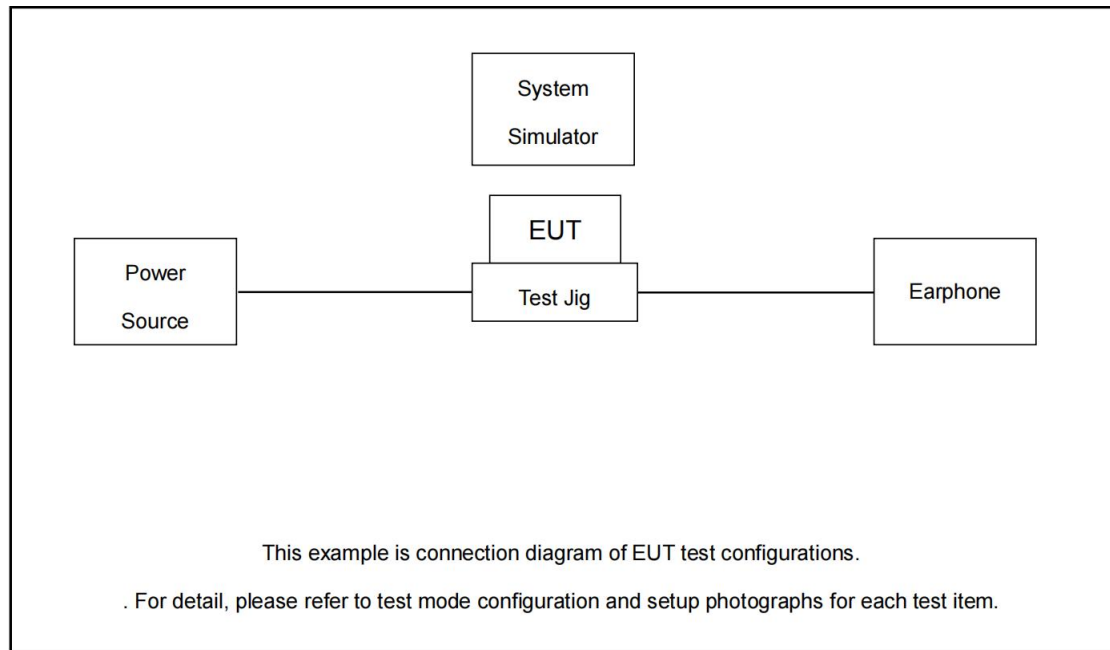
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (X-Plane).

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	4	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	5	√	√	√	√			√	√	√	√		√	√	√	√
	7	√	√	√	√			√	√	√	√		√	√	√	√
	12			√	√			√	√	√	√		√	√	√	√
	13			√	√	√	√	√	√	√	√		√	√	√	√
	25	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	26	√	√	√	√	√		√	√	√	√		√	√	√	√
	30			√	√			√	√	√	√		√	√	√	√
	38			√	√	√	√	√	√	√	√		√	√	√	√
	41	√	√	√	√	√	√	√	√	√	√		√	√	√	√
Peak-to-Average Ratio	66			√	√	√	√	√	√	√	√		√	√	√	√
	71			√	√	√	√	√	√	√	√		√	√	√	√
	2	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	4	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	5	√	√	√	√			√	√	√	√		√	√	√	√
	7	√	√	√	√			√	√	√	√		√	√	√	√
	12			√	√			√	√	√	√		√	√	√	√
	13			√	√	√	√	√	√	√	√		√	√	√	√
	25	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	26	√	√	√	√	√		√	√	√	√		√	√	√	√
	30			√	√			√	√	√	√		√	√	√	√
26dB and 99% Bandwidth	38			√	√	√	√	√	√	√	√		√	√	√	√
	41	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	66			√	√	√	√	√	√	√	√		√	√	√	√
	71			√	√	√	√	√	√	√	√		√	√	√	√
	2	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	4	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	5	√	√	√	√			√	√	√	√		√	√	√	√
	7	√	√	√	√			√	√	√	√		√	√	√	√
	12			√	√			√	√	√	√		√	√	√	√
	13			√	√	√	√	√	√	√	√		√	√	√	√
	25	√	√	√	√	√	√	√	√	√	√		√	√	√	√
Conducted Band Edge	26	√	√	√	√	√		√	√	√	√		√	√	√	√
	30			√	√			√	√	√	√		√	√	√	√
	38			√	√	√	√	√	√	√	√		√	√	√	√
	41	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	66			√	√	√	√	√	√	√	√		√	√	√	√
	71			√	√	√	√	√	√	√	√		√	√	√	√
	2	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	4	√	√	√	√	√	√	√	√	√	√		√	√	√	√
	5	√	√	√	√			√	√	√	√		√	√	√	√
	7	√	√	√	√			√	√	√	√		√	√	√	√
	12			√	√			√	√	√	√		√	√	√	√
Conducted Spurious Emission	13			√	√	√	√	√	√	√	√		√	√	√	√
	25	√	√	√	√	√	√	√	√	√	√		√	√	√	√

	26	√	√	√	√	√		√	√	√		√		√	√	√	√
	30			√	√			√	√	√		√		√	√	√	√
	38			√	√	√	√	√	√	√		√		√	√	√	√
	41	√	√	√	√	√	√	√	√	√		√		√	√	√	√
	66			√	√	√	√	√	√	√		√		√	√	√	√
	71			√	√	√	√	√	√	√		√		√	√	√	√
Frequency Stability	2	√	√	√	√	√	√	√	√	√		√		√	√	√	√
	4	√	√	√	√	√	√	√	√	√		√		√	√	√	√
	5	√	√	√	√			√	√	√		√		√	√	√	√
	7	√	√	√	√			√	√	√		√		√	√	√	√
	12			√	√			√	√	√		√		√	√	√	√
	13			√	√	√	√	√	√	√		√		√	√	√	√
	25	√	√	√	√	√	√	√	√	√		√		√	√	√	√
	26	√	√	√	√	√		√	√	√		√		√	√	√	√
	30			√	√			√	√	√		√		√	√	√	√
	38			√	√	√	√	√	√	√		√		√	√	√	√
	41	√	√	√	√	√	√	√	√	√		√		√	√	√	√
E.R.P / E.I.R.P	66			√	√	√	√	√	√	√		√		√	√	√	√
	71			√	√	√	√	√	√	√		√		√	√	√	√
	2	√	√	√	√	√	√	√	√	√		√		√	√	√	√
	4	√	√	√	√	√	√	√	√	√		√		√	√	√	√
	5	√	√	√	√			√	√	√		√		√	√	√	√
	7	√	√	√	√			√	√	√		√		√	√	√	√
	12			√	√			√	√	√		√		√	√	√	√
	13			√	√	√	√	√	√	√		√		√	√	√	√
	25	√	√	√	√	√	√	√	√	√		√		√	√	√	√
	26	√	√	√	√	√		√	√	√		√		√	√	√	√
	30			√	√			√	√	√		√		√	√	√	√
Radiated Spurious Emission	38			√	√	√	√	√	√	√		√		√	√	√	√
	41	√	√	√	√	√	√	√	√	√		√		√	√	√	√
	66			√	√	√	√	√	√	√		√		√	√	√	√
	71			√	√	√	√	√	√	√		√		√	√	√	√
	2	Worst Case												√	√	√	
	4	Worst Case												√	√	√	
	5	Worst Case												√	√	√	
	7	Worst Case												√	√	√	
	12	Worst Case												√	√	√	
	13	Worst Case												√	√	√	
	25	Worst Case												√	√	√	
26	Worst Case												√	√	√		
30	Worst Case												√	√	√		
38	Worst Case												√	√	√		
41	Worst Case												√	√	√		
66	Worst Case												√	√	√		
71	Worst Case												√	√	√		
Note	1. The mark “√” means that this configuration is chosen for testing. 2. When a cell is empty, it means it is not supported or does not require testing. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																

2.2. Connection Diagram of Test System



2.3. Support Unit used in test configuration and system

NO.	Unit	Brand	Model	Description
1	-	-	-	-
2	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

2.4. Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	21375	21100	20825
	Frequency	2562.5	2535	2507.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	/	23230	/
	Frequency	/	782	/
5	Channel	23205	23230	23255
	Frequency	779.5	782.0	784.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26365	26590
	Frequency	1860.00	1882.50	1905.00
15	Channel	26115	26365	26615
	Frequency	1857.50	1882.50	1907.50
10	Channel	26090	26365	26640
	Frequency	1855.00	1882.50	1910.00
5	Channel	26065	26365	26665
	Frequency	1852.50	1882.50	1912.50
3	Channel	26055	26365	26675
	Frequency	1851.50	1882.50	1913.50
1.4	Channel	26047	26365	26683
	Frequency	1850.70	1882.50	1914.30

LTE Band 26(Part 22H) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829.0	836.5	844.0
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 26(90S) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	/	26740	/
	Frequency	/	819.0	/
5	Channel	26715	26740	26765
	Frequency	816.5	819.0	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819.0	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819.0	823.3

LTE Band 30 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	/	27710	/
	Frequency	/	2310.0	/
5	Channel	27685	27710	27735
	Frequency	2307.5	2310.0	2312.5

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580.0	2595.0	2610.0
15	Channel	37825	38000	38175
	Frequency	2577.5	2595.0	2612.5
10	Channel	38200	38000	37800
	Frequency	2575.0	2595.0	2615.0
5	Channel	37775	38000	38225
	Frequency	2572.5	2595.0	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133297	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133297	133422
	Frequency	668.0	680.5	693.0
5	Channel	133147	133297	133447
	Frequency	665.5	680.5	695.5

2.5. Equipment List

2.5.1. For Conducted Test

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2025.05.15	2026.05.14
Communication Test Station	6200995016	MT8820C	Anritsu	2024.09.11	2025.09.10
Temperature Chamber	S022177101 00089002	KMT-36LF 1A0	KOMEG	2024.09.11	2025.09.10

List of Software Used

Description	Manufacturer	Software Version
MOR-2023E Test System	MORLAB	V7.99
JS36-RSE	Tonscend	5.0.0

2.5.2. For Radiated Spurious Emission

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2024.09.11	2025.09.10
Receiver	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna – Loop	FMZB 1519	1519-022	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2025.06.28	2026.06.27
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna - Horn	BBHA9170	BBHA9170#773	Schwarzbeck	2025.06.20	2026.06.19
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KK F-2	Qualwave	2024.09.11	2025.09.10
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
Notch Filter	N/A	WRCGV -LTE B2	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE B4	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE B41	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE 42	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	2028.06.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29

2.6. Measurement Uncertainty

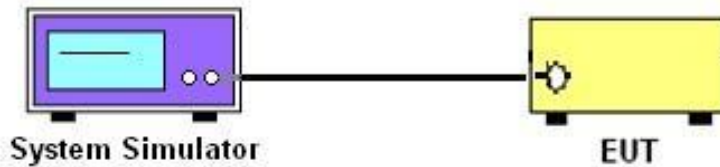
The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Items	Uncertainty
Output Power	± 2.22 dB
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	± 2.77 dB
Band Edge	± 2.77 dB
Equivalent Isotropic Radiated Power	± 2.22 dB
Radiated Spurious Emissions	± 6 dB

3. TEST RESULT

3.1. Conducted Output Power and ERP/EIRP

3.1.1. Test Setup



3.1.2. Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 .

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 Band 17.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 7, ,Band41.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

According to KDB 412172 D01 Power Approach, $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where P_T = transmitter output power in dBm, G_T = gain of the transmitting antenna in dBi, L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB.

3.1.3. Test Procedures

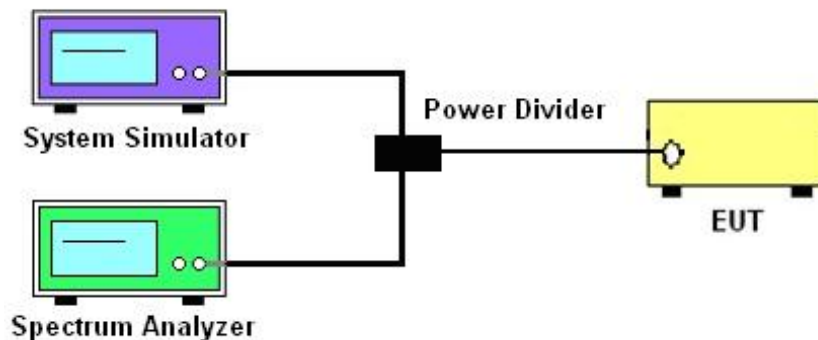
1. The testing follows ANSI C63.26 Section 5.2.
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.1.4. Test Result of Conducted Output Power and ERP/EIRP

Please refer to the Appendix C1.

3.2. Peak-to-Average Ratio

3.2.1. Test Setup



3.2.2. Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.2.3. Test Procedures

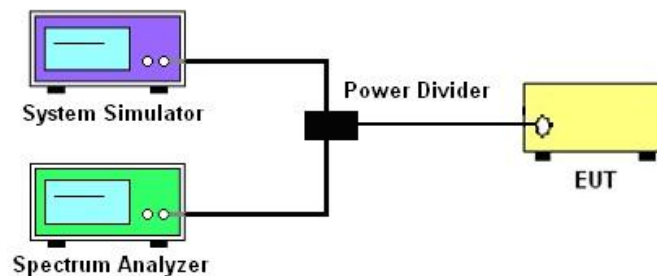
1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.2.4. Test Result of Peak-to-Average Ratio

Please refer to the Appendix C2.

3.3. Occupied Bandwidth

3.3.1. Test Setup



3.3.2. Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.3.3. Test Procedures

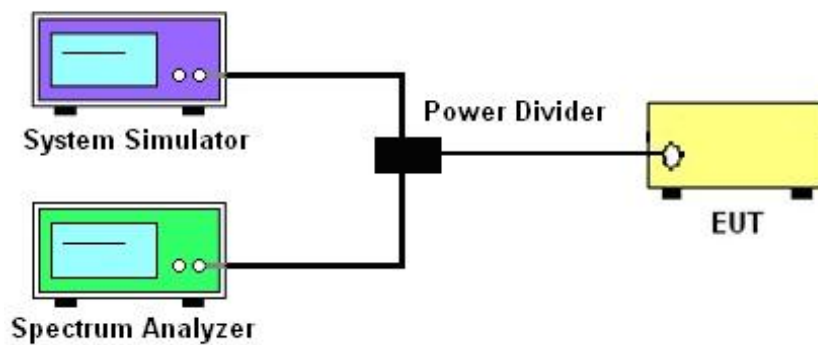
1. The testing follows ANSI C63.26 Section 5.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.3.4. Test Result of Occupied Bandwidth

Please refer to the Appendix C4.

3.4. Conducted Band Edge

3.4.1. Test Setup



3.4.2. Description of Conducted Band Edge Measurement

22.917(a):

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a):

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g):

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h):

For operations in the 1710 – 1755 MHz and 1710 – 1780 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.3. Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}$$

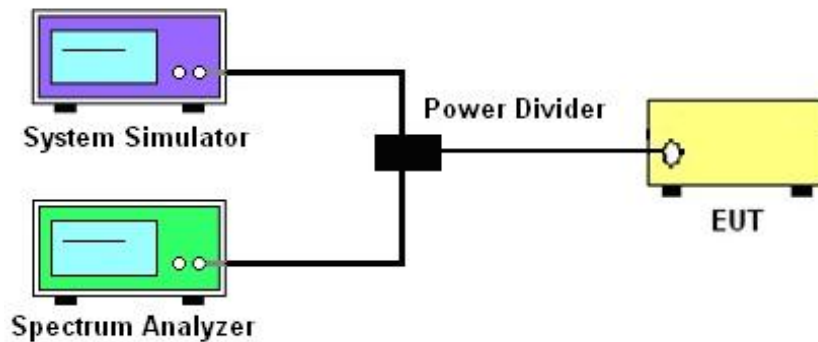
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.4.4. Test Result of Conducted Band Edge

Please refer to the Appendix C6.

3.5. Conducted Spurious Emission

3.5.1. Test Setup



3.5.2. Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.5.3. Test Procedures

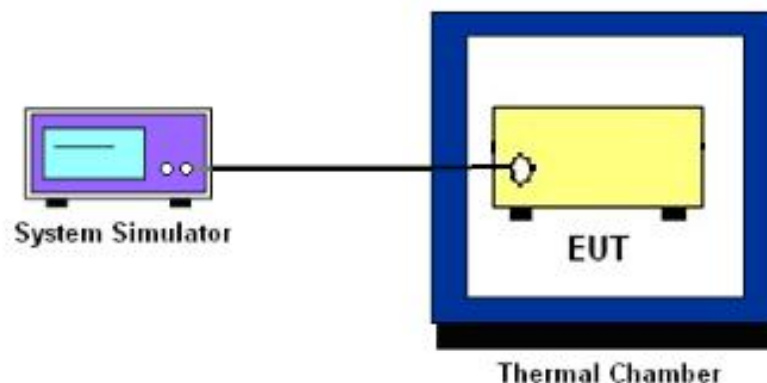
1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$

3.5.4. Test Result of Conducted Spurious Emission

Please refer to the Appendix C5.

3.6. Frequency Stability

3.6.1. Test Setup



3.6.2. Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.6.3. Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.6.4. Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

5. The variation in frequency was measured for the worst case.

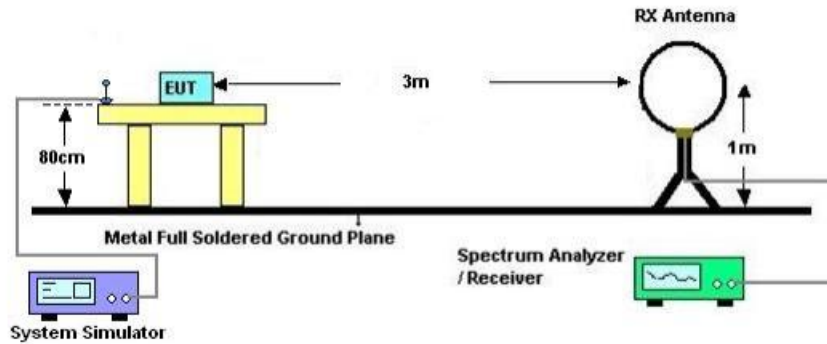
3.6.5. Test Result of Frequency Stability

Please refer to the Appendix C3.

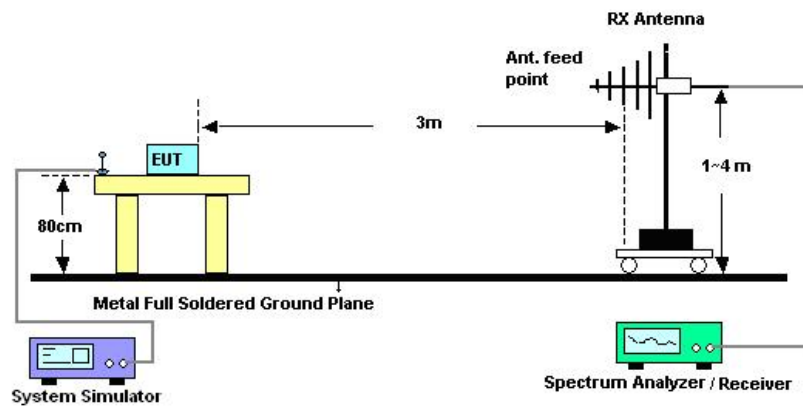
3.7. Radiated Spurious Emission

3.7.1. Test Setup

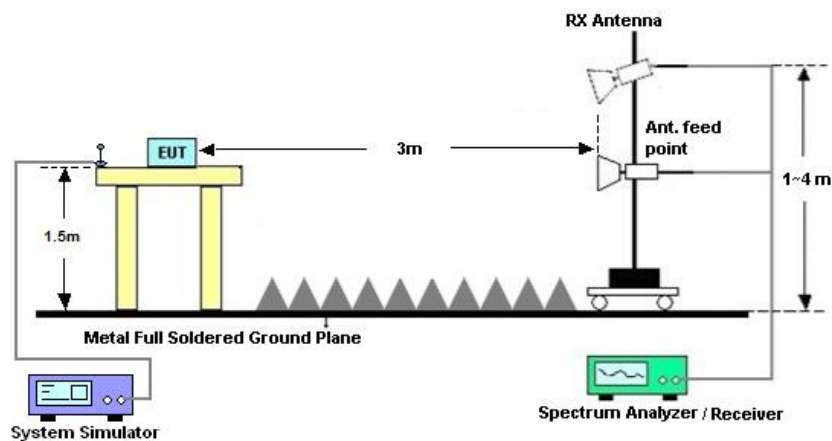
3.7.1.1. For radiated test below 30MHz



3.7.1.2. For radiated test from 30MHz to 1GHz



3.7.1.3. For radiated test above 1GHz



3.7.2. Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.3. Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

3.7.4. Test Result of Radiated Spurious Emission

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Radiated spurious emissions - MS allocated a channel:

Below 1GHz:

Note:

All modes have been tested, only worst case(LTE Band 2_Traffic Mode_High CH)mode was recorded in the test report.

Note: All bandwidths, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

LTE band 2 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-63.53	-0.36	-63.89	-13.00	50.89	Vertical
5552.10	-65.19	4.16	-61.03	-13.00	48.03	Vertical
7402.00	-66.43	6.10	-60.33	-13.00	47.33	Vertical
3701.40	-63.83	-0.17	-64.00	-13.00	51.00	Horizontal
5552.10	-64.42	4.07	-60.35	-13.00	47.35	Horizontal
7402.00	-66.65	5.78	-60.87	-13.00	47.87	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-63.81	-1.01	-64.82	-13.00	51.82	Vertical
5640.00	-65.30	3.96	-61.34	-13.00	48.34	Vertical
7520.00	-65.94	5.55	-60.39	-13.00	47.39	Vertical
3760.00	-64.05	-0.56	-64.61	-13.00	51.61	Horizontal
5640.00	-64.76	4.14	-60.62	-13.00	47.62	Horizontal
7520.00	-66.44	5.56	-60.88	-13.00	47.88	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-63.46	-0.59	-64.05	-13.00	51.05	Vertical
5724.90	-65.59	3.42	-62.17	-13.00	49.17	Vertical
7633.20	-65.92	6.40	-59.52	-13.00	46.52	Vertical
3816.60	-63.74	-0.10	-63.84	-13.00	50.84	Horizontal
5724.90	-64.58	3.80	-60.78	-13.00	47.78	Horizontal
7633.20	-66.94	6.24	-60.70	-13.00	47.70	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. 2. Test Frequency up to 20GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

LTE band 4 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-55.93	-2.15	-58.08	-13.00	45.08	Vertical
5132.10	-64.56	3.80	-60.76	-13.00	47.76	Vertical
6842.80	-64.69	5.86	-58.83	-13.00	45.83	Vertical
3421.40	-56.20	-2.22	-58.42	-13.00	45.42	Horizontal
5132.10	-64.59	3.86	-60.73	-13.00	47.73	Horizontal
6842.80	-65.18	6.07	-59.11	-13.00	46.11	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.00	-55.76	-2.54	-58.30	-13.00	45.30	Vertical
5197.50	-64.91	3.25	-61.66	-13.00	48.66	Vertical
6930.00	-64.76	5.20	-59.56	-13.00	46.56	Vertical
3465.00	-55.94	-2.54	-58.48	-13.00	45.48	Horizontal
5197.50	-64.22	3.17	-61.05	-13.00	48.05	Horizontal
6930.00	-64.72	5.17	-59.55	-13.00	46.55	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3508.60	-55.97	-3.13	-59.10	-13.00	46.10	Vertical
5262.90	-65.20	3.11	-62.09	-13.00	49.09	Vertical
7017.20	-64.33	5.74	-58.59	-13.00	45.59	Vertical
3508.60	-56.15	-2.96	-59.11	-13.00	46.11	Horizontal
5262.90	-64.63	3.46	-61.17	-13.00	48.17	Horizontal
7017.20	-64.25	5.80	-58.45	-13.00	45.45	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. 2. Test Frequency up to 20GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

LTE band 5 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-60.56	-11.51	-72.07	-13.00	59.07	Vertical
2474.10	-61.10	-8.67	-69.77	-13.00	56.77	Vertical
3298.80	-61.54	-3.89	-65.43	-13.00	52.43	Vertical
1649.40	-61.12	-10.85	-71.97	-13.00	58.97	Horizontal
2474.10	-59.80	-9.13	-68.93	-13.00	55.93	Horizontal
3298.80	-61.19	-3.96	-65.15	-13.00	52.15	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-60.89	-10.70	-71.59	-13.00	58.59	Vertical
2509.50	-60.70	-8.66	-69.36	-13.00	56.36	Vertical
3346.00	-61.21	-3.33	-64.54	-13.00	51.54	Vertical
1673.30	-61.11	-10.28	-71.39	-13.00	58.39	Horizontal
2509.50	-59.61	-8.73	-68.34	-13.00	55.34	Horizontal
3346.00	-61.44	-3.42	-64.86	-13.00	51.86	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-61.03	-9.90	-70.93	-13.00	57.93	Vertical
2544.90	-60.76	-8.45	-69.21	-13.00	56.21	Vertical
3393.20	-61.52	-2.59	-64.11	-13.00	51.11	Vertical
1696.60	-60.68	-9.70	-70.38	-13.00	57.38	Horizontal
2544.90	-59.35	-8.21	-67.56	-13.00	54.56	Horizontal
3393.20	-61.50	-2.65	-64.15	-13.00	51.15	Horizontal
Remark: - The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. - Test Frequency up to 20GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

LTE band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-64.83	3.69	-61.14	-25.00	36.14	Vertical
7507.50	-66.69	5.56	-61.13	-25.00	36.13	Vertical
10010.00	-66.67	10.09	-56.58	-25.00	31.58	Vertical
5005.00	-64.37	4.02	-60.35	-25.00	35.35	Horizontal
7507.50	-65.67	5.56	-60.11	-25.00	35.11	Horizontal
10010.00	-66.53	9.47	-57.06	-25.00	32.06	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-64.71	4.23	-60.48	-25.00	35.48	Vertical
7605.00	-65.64	6.06	-59.58	-25.00	34.58	Vertical
10140.00	-67.11	10.48	-56.63	-25.00	31.63	Vertical
5070.00	-64.57	3.51	-61.06	-25.00	36.06	Horizontal
7605.00	-65.96	5.95	-60.01	-25.00	35.01	Horizontal
10140.00	-67.04	10.21	-56.83	-25.00	31.83	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-65.27	3.78	-61.49	-25.00	36.49	Vertical
7702.50	-66.34	6.22	-60.12	-25.00	35.12	Vertical
10270.00	-66.73	11.48	-55.25	-25.00	30.25	Vertical
5135.00	-64.27	3.83	-60.44	-25.00	35.44	Horizontal
7702.50	-65.81	5.97	-59.84	-25.00	34.84	Horizontal
10270.00	-66.96	11.00	-55.96	-25.00	30.96	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. 2. Test Frequency up to 20GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

LTE band 12 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.40	-45.92	-11.68	-57.60	-13.00	44.60	Vertical
2099.10	-45.04	-9.89	-54.93	-13.00	41.93	Vertical
2798.80	-61.09	-7.09	-68.18	-13.00	55.18	Vertical
1399.40	-48.61	-11.43	-60.04	-13.00	47.04	Horizontal
2099.10	-48.20	-9.44	-57.64	-13.00	44.64	Horizontal
2798.80	-61.66	-6.71	-68.37	-13.00	55.37	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-44.62	-11.77	-56.39	-13.00	43.39	Vertical
2122.50	-43.90	-9.58	-53.48	-13.00	40.48	Vertical
2830.00	-61.28	-6.50	-67.78	-13.00	54.78	Vertical
1415.00	-48.65	-11.45	-60.10	-13.00	47.10	Horizontal
2122.50	-47.74	-8.86	-56.60	-13.00	43.60	Horizontal
2830.00	-61.36	-5.97	-67.33	-13.00	54.33	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.60	-45.66	-11.92	-57.58	-13.00	44.58	Vertical
2145.90	-44.77	-9.51	-54.28	-13.00	41.28	Vertical
2861.20	-61.43	-5.55	-66.98	-13.00	53.98	Vertical
1430.60	-48.13	-11.66	-59.79	-13.00	46.79	Horizontal
2145.90	-48.18	-9.15	-57.33	-13.00	44.33	Horizontal
2861.20	-61.83	-5.44	-67.27	-13.00	54.27	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. 2. Test Frequency up to 20GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

LTE band 13 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.00	-56.84	-11.55	-68.39	-40.00	28.39	Vertical
2338.50	-54.56	-9.40	-63.96	-13.00	50.96	Vertical
3118.00	-60.58	-2.81	-63.39	-13.00	50.39	Vertical
1559.00	-54.72	-12.18	-66.90	-40.00	26.90	Horizontal
2338.50	-52.21	-9.26	-61.47	-13.00	48.47	Horizontal
3118.00	-60.45	-3.05	-63.50	-13.00	50.50	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.00	-55.57	-11.57	-67.14	-40.00	27.14	Vertical
2346.00	-53.93	-9.38	-63.31	-13.00	50.31	Vertical
3128.00	-60.06	-2.66	-62.72	-13.00	49.72	Vertical
1564.00	-54.58	-12.12	-66.70	-40.00	26.70	Horizontal
2346.00	-51.65	-9.27	-60.92	-13.00	47.92	Horizontal
3128.00	-60.08	-3.01	-63.09	-13.00	50.09	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1569.00	-56.39	-11.63	-68.02	-40.00	28.02	Vertical
2353.50	-54.59	-9.35	-63.94	-13.00	50.94	Vertical
3138.00	-60.55	-2.48	-63.03	-13.00	50.03	Vertical
1569.00	-54.39	-12.06	-66.45	-40.00	26.45	Horizontal
2353.50	-51.98	-9.28	-61.26	-13.00	48.26	Horizontal
3138.00	-60.27	-2.96	-63.23	-13.00	50.23	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. 2. Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

LTE band 25 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-61.51	-0.36	-61.87	-13.00	48.87	Vertical
5552.10	-62.43	4.16	-58.27	-13.00	45.27	Vertical
7402.80	-63.84	6.10	-57.74	-13.00	44.74	Vertical
3701.40	-61.90	-0.17	-62.07	-13.00	49.07	Horizontal
5552.10	-60.79	4.07	-56.72	-13.00	43.72	Horizontal
7402.80	-64.32	5.76	-58.56	-13.00	45.56	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765.00	-61.21	-1.01	-62.22	-13.00	49.22	Vertical
5647.50	-62.55	3.85	-58.70	-13.00	45.70	Vertical
7530.00	-63.58	5.56	-58.02	-13.00	45.02	Vertical
3765.00	-62.36	-0.54	-62.90	-13.00	49.90	Horizontal
5647.50	-60.90	4.08	-56.82	-13.00	43.82	Horizontal
7530.00	-63.93	5.56	-58.37	-13.00	45.37	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3828.60	-62.08	-0.36	-62.44	-13.00	49.44	Vertical
5742.90	-63.53	3.50	-60.03	-13.00	47.03	Vertical
7657.20	-63.03	6.54	-56.49	-13.00	43.49	Vertical
3828.60	-62.47	0.06	-62.41	-13.00	49.41	Horizontal
5742.90	-61.32	3.85	-57.47	-13.00	44.47	Horizontal
7657.20	-63.46	6.33	-57.13	-13.00	44.13	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. 2. Test Frequency up to 27GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

LTE band 26(Part 22) – 1.4 MHz bandwidth

Lowest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-59.13	-11.51	-70.64	-13.00	57.64	Vertical
2474.10	-59.66	-8.67	-68.33	-13.00	55.33	Vertical
3298.80	-62.95	-3.89	-66.84	-13.00	53.84	Vertical
1649.40	-61.56	-10.85	-72.41	-13.00	59.41	Horizontal
2474.10	-58.35	-9.13	-67.48	-13.00	54.48	Horizontal
3298.80	-63.25	-3.96	-67.21	-13.00	54.21	Horizontal

Middle channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-58.98	-10.70	-69.68	-13.00	56.68	Vertical
2509.50	-60.01	-8.66	-68.67	-13.00	55.67	Vertical
3346.00	-63.23	-3.33	-66.56	-13.00	53.56	Vertical
1673.00	-61.69	-10.28	-71.97	-13.00	58.97	Horizontal
2509.50	-57.98	-8.73	-66.71	-13.00	53.71	Horizontal
3346.00	-62.88	-3.42	-66.30	-13.00	53.30	Horizontal

Highest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-59.67	-9.90	-69.57	-13.00	56.57	Vertical
2544.90	-60.67	-8.45	-69.12	-13.00	56.12	Vertical
3393.20	-63.62	-2.59	-66.21	-13.00	53.21	Vertical
1696.60	-61.97	-9.70	-71.67	-13.00	58.67	Horizontal
2544.90	-57.78	-8.21	-65.99	-13.00	52.99	Horizontal
3393.20	-62.72	-2.65	-65.37	-13.00	52.37	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.
2. Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

LTE band 26(Part 90) – 1.4 MHz bandwidth
Lowest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1629.40	-56.17	-12.21	-68.38	-13.00	55.38	Vertical
2444.10	-59.52	-8.84	-68.36	-13.00	55.36	Vertical
3258.80	-62.35	-3.57	-65.92	-13.00	52.92	Vertical
1629.40	-58.13	-11.35	-69.48	-13.00	56.48	Horizontal
2444.10	-55.42	-9.23	-64.65	-13.00	51.65	Horizontal
3258.80	-62.54	-3.42	-65.96	-13.00	52.96	Horizontal

Middle channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.00	-55.56	-11.90	-67.46	-13.00	54.46	Vertical
2457.00	-58.26	-8.75	-67.01	-13.00	54.01	Vertical
3276.00	-62.53	-3.71	-66.24	-13.00	53.24	Vertical
1638.00	-58.44	-11.13	-69.57	-13.00	56.57	Horizontal
2457.00	-55.38	-9.20	-64.58	-13.00	51.58	Horizontal
3276.00	-62.15	-3.65	-65.80	-13.00	52.80	Horizontal

Highest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1646.60	-56.18	-11.60	-67.78	-13.00	54.78	Vertical
2469.90	-59.07	-8.67	-67.74	-13.00	54.74	Vertical
3293.20	-62.45	-3.85	-66.30	-13.00	53.30	Vertical
1646.60	-57.92	-10.92	-68.84	-13.00	55.84	Horizontal
2469.90	-55.68	-9.18	-64.86	-13.00	51.86	Horizontal
3293.20	-62.43	-3.88	-66.31	-13.00	53.31	Horizontal

Remark:

1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.
2. Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

LTE band 30 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
4615.00	-64.31	2.54	-61.77	-25.00	36.77	Vertical
6922.50	-64.26	5.21	-59.05	-25.00	34.05	Vertical
9230.00	-66.52	10.85	-55.67	-25.00	30.67	Vertical
4615.00	-64.70	2.54	-62.16	-25.00	37.16	Horizontal
6922.50	-64.45	5.22	-59.23	-25.00	34.23	Horizontal
9230.00	-66.73	10.73	-56.00	-25.00	31.00	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
4620.00	-64.45	2.60	-61.85	-25.00	36.85	Vertical
6930.00	-64.47	5.20	-59.27	-25.00	34.27	Vertical
9240.00	-66.87	10.81	-56.06	-25.00	31.06	Vertical
4620.00	-64.50	2.61	-61.89	-25.00	36.89	Horizontal
6930.00	-64.59	5.17	-59.42	-25.00	34.42	Horizontal
9240.00	-66.58	10.74	-55.84	-25.00	30.84	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
4625.00	-65.22	2.67	-62.55	-25.00	37.55	Vertical
6937.50	-65.34	5.18	-60.16	-25.00	35.16	Vertical
9250.00	-66.60	10.77	-55.83	-25.00	30.83	Vertical
4625.00	-64.36	2.68	-61.68	-25.00	36.68	Horizontal
6937.50	-64.11	5.11	-59.00	-25.00	34.00	Horizontal
9250.00	-66.57	10.76	-55.81	-25.00	30.81	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. 2. Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

LTE band 38 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5145.00	-64.63	3.70	-60.93	-25.00	35.93	Vertical
7717.50	-65.56	6.36	-59.20	-25.00	34.20	Vertical
10290.00	-67.55	11.95	-55.60	-25.00	30.60	Vertical
5145.00	-64.78	3.73	-61.05	-25.00	36.05	Horizontal
7717.50	-65.07	6.10	-58.97	-25.00	33.97	Horizontal
10290.00	-67.06	11.52	-55.54	-25.00	30.54	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190.00	-64.52	3.33	-61.19	-25.00	36.19	Vertical
7785.00	-65.29	8.39	-56.90	-25.00	31.90	Vertical
10380.00	-67.32	10.75	-56.57	-25.00	31.57	Vertical
5190.00	-64.65	3.26	-61.39	-25.00	36.39	Horizontal
7785.00	-65.46	8.24	-57.22	-25.00	32.22	Horizontal
10380.00	-67.45	10.21	-57.24	-25.00	32.24	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5235.00	-64.11	3.17	-60.94	-25.00	35.94	Vertical
7852.50	-65.32	8.52	-56.80	-25.00	31.80	Vertical
10470.00	-67.39	11.86	-55.53	-25.00	30.53	Vertical
5235.00	-64.16	3.32	-60.84	-25.00	35.84	Horizontal
7852.50	-65.53	8.28	-57.25	-25.00	32.25	Horizontal
10470.00	-67.61	11.27	-56.34	-25.00	31.34	Horizontal
Remark: - The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. - Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

LTE band 41 – 5 MHz bandwidth

Lowest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.00	-64.38	3.56	-60.82	-25.00	35.82	Vertical
7495.50	-64.72	5.68	-59.04	-25.00	34.04	Vertical
9994.00	-67.45	9.96	-57.49	-25.00	32.49	Vertical
4997.00	-64.86	4.08	-60.78	-25.00	35.78	Horizontal
7495.50	-63.26	5.52	-57.74	-25.00	32.74	Horizontal
9994.00	-67.10	9.64	-57.46	-25.00	32.46	Horizontal

Middle channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.00	-64.43	3.35	-61.08	-25.00	36.08	Vertical
7779.00	-64.42	8.21	-56.21	-25.00	31.21	Vertical
10372.00	-67.55	10.91	-56.64	-25.00	31.64	Vertical
5186.00	-65.00	3.29	-61.71	-25.00	36.71	Horizontal
7779.00	-63.30	8.05	-55.25	-25.00	30.25	Horizontal
10372.00	-67.48	10.39	-57.09	-25.00	32.09	Horizontal

Highest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-65.32	4.30	-61.02	-25.00	36.02	Vertical
8062.50	-65.01	8.18	-56.83	-25.00	31.83	Vertical
10750.00	-67.03	11.78	-55.25	-25.00	30.25	Vertical
5375.00	-65.33	4.29	-61.04	-25.00	36.04	Horizontal
8062.50	-62.91	8.89	-54.02	-25.00	29.02	Horizontal
10750.00	-67.81	11.20	-56.61	-25.00	31.61	Horizontal

Remark:

- The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.
- Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

LTE band 66 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-63.62	-2.15	-65.77	-13.00	52.77	Vertical
5132.10	-64.91	3.80	-61.11	-13.00	48.11	Vertical
6842.80	-65.50	5.86	-59.64	-13.00	46.64	Vertical
3421.40	-63.17	-2.22	-65.39	-13.00	52.39	Horizontal
5132.10	-65.30	3.86	-61.44	-13.00	48.44	Horizontal
6842.80	-65.38	6.07	-59.31	-13.00	46.31	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-63.39	-3.02	-66.41	-13.00	53.41	Vertical
5235.00	-64.95	3.17	-61.78	-13.00	48.78	Vertical
6980.00	-65.65	5.49	-60.16	-13.00	47.16	Vertical
3490.00	-63.12	-2.92	-66.04	-13.00	53.04	Horizontal
5235.00	-65.16	3.32	-61.84	-13.00	48.84	Horizontal
6980.00	-65.79	5.46	-60.33	-13.00	47.33	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.60	-64.11	-2.25	-66.36	-13.00	53.36	Vertical
5337.90	-65.96	4.23	-61.73	-13.00	48.73	Vertical
7117.20	-65.89	5.53	-60.36	-13.00	47.36	Vertical
3558.60	-62.90	-2.22	-65.12	-13.00	52.12	Horizontal
5337.90	-65.34	4.19	-61.15	-13.00	48.15	Horizontal
7117.20	-66.02	5.32	-60.70	-13.00	47.70	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. 2. Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

LTE band 71 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1331.00	-56.77	-11.75	-68.52	-13.00	55.52	Vertical
1996.50	-50.45	-10.59	-61.04	-13.00	48.04	Vertical
2662.00	-60.99	-7.26	-68.25	-13.00	55.25	Vertical
1331.00	-56.18	-11.97	-68.15	-13.00	55.15	Horizontal
1996.50	-47.27	-10.81	-58.08	-13.00	45.08	Horizontal
2662.00	-61.13	-7.18	-68.31	-13.00	55.31	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361.00	-57.11	-11.77	-68.88	-13.00	55.88	Vertical
2041.50	-50.60	-10.78	-61.38	-13.00	48.38	Vertical
2722.00	-61.17	-7.04	-68.21	-13.00	55.21	Vertical
1361.00	-56.34	-11.70	-68.04	-13.00	55.04	Horizontal
2041.50	-47.20	-11.11	-58.31	-13.00	45.31	Horizontal
2722.00	-61.54	-7.16	-68.70	-13.00	55.70	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1391.00	-58.09	-11.69	-69.78	-13.00	56.78	Vertical
2086.50	-51.25	-10.13	-61.38	-13.00	48.38	Vertical
2782.00	-61.10	-7.00	-68.10	-13.00	55.10	Vertical
1391.00	-56.79	-11.48	-68.27	-13.00	55.27	Horizontal
2086.50	-47.68	-9.89	-57.57	-13.00	44.57	Horizontal
2782.00	-61.57	-6.83	-68.40	-13.00	55.40	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. 2. Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

4. TEST SETUP PHOTOGRAPHS

Please refer to the Appendix F.

5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

External Please refer to the Appendix G.

Internal Please refer to the Appendix H.

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