



# Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800146501

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## TEST REPORT

**Application No.:** KSCR2208001465AT  
**FCC ID:** OJFE62-N3-85  
**Applicant:** Corning Optical Communications LLC  
**Address of Applicant:** 6 Concord Road, Shrewsbury, MA 01545 United States  
**Manufacturer:** Corning Optical Communications LLC  
**Address of Manufacturer:** 6 Concord Road, Shrewsbury, MA 01545 United States  
**Factory:** Sunwave Communications Co., Ltd  
**Address of Factory:** 581 Houju Avenue, Binjinag District, Hangzhou, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Remote Unit  
**Model No.:** E62-N3  
**Trade mark:** **CORNING**  
**Standard(s) :** FCC Part 2;  
 FCC Part 22  
 FCC Part 90  
**Date of Receipt:** 2022-08-19  
**Date of Test:** 2022-09-10 to 2022-09-15  
**Date of Issue:** 2022-09-15

<b>Test Result:</b>	<b>Pass</b>
---------------------	-------------

\* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin  
Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
00	Original	2022-09-15		/

<b>Authorized for issue by:</b>			
		<i>Damon Zhou</i>	
		<b>Damon Zhou / Project Engineer</b>	
		<i>Eric Lin</i>	
		<b>Eric Lin / Reviewer</b>	



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## 2 Test Summary

Test Item	FCC Rule No.	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046	PASS
	§22.913	
	§90.635	
Peak-Average Ratio	§22.913	PASS
	§90.635	
Bandwidth	§2.1049(h)	PASS
Band Edge Compliance	§2.1051	PASS
	§22.917	
	§90.691	
Spurious emissions at antenna terminals	§2.1051	PASS
	§22.917	
	§90.691	
Radiated spurious radiation	§2.1053	PASS
Frequency stability	§2.1055	PASS
	§22.355	
	§90.213	
<p>Remark:</p> <p>EUT: In this whole report EUT means Equipment Under Test.</p> <p>Tx: In this whole report Tx (or tx) means Transmitter.</p> <p>Rx: In this whole report Rx (or rx) means Receiver.</p> <p>All modes have been tested and only record the worst test result.</p> <p>The products are equipped with internal antenna and external antenna. The main difference is the appearance and antenna, but there is no difference in the circuit. Therefore, we only evaluated the internal and external antennas in the radiation test part, and the worst test result was the external antenna products with load test.</p>		
<p>Test method standard:</p> <p>ANSI C63.26-2015</p> <p>KDB 971168 D01 v03</p>		



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## 4 General Information

### 4.1 Details of E.U.T.

Product Name:	Remote Unit
Device type	Base station
Model No.:	E62-N3
Antenna Type:	External&Internal
Antenna Gain:	2.93dBi (Provided by manufacturer)
Power Supply:	DC 48V
Frequency Band:	859MHz to 894MHz
Normal Output Power(EIRP):	26 ± 2dBm
Modulation Type:	5G NR: CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
MIMO:	4T4R MIMO,2T2R MIMO,SISO
Temperature Range:	-10°C to 45°C

### 4.2 Test Frequency

#### 5G NR (859-869MHz)

5G NR (859- 869MHz)	SCS	Carrier	Bandwidth (MHz)	Continue Channel (MHz)		
				Low	Middle	High
	15KHz	1CC	10	/	864	/

5G NR (859- 869MHz)	SCS	Carrier	Bandwidth (MHz)	Continue Channel (MHz)		
				Low	Middle	High
	30KHz	1CC	10	/	864	/



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### 5G NR (869-894MHz)

5G NR (869-894MHz)	SCS	Carrier	Bandwidth (MHz)	Continue Channel (MHz)		
				Low	Middle	High
	15KHz	1CC	10	874	881.5	889
			15	876.5	881.5	886.5
			20	879	881.5	884
	2CC	10+10	874+854	876.5+886.5	879+889	

5G NR (869-894MHz)	SCS	Carrier	Bandwidth (MHz)	Continue Channel (MHz)		
				Low	Middle	High
	30KHz	1CC	10	874	881.5	889
			15	876.5	881.5	886.5
			20	879	881.5	884
	2CC	10+10	874+854	876.5+886.5	879+889	

5G NR (869-894MHz)	SCS	Carrier	Bandwidth (MHz)	Non-Continue Channel (MHz)
	15KHz	2CC	10+10	874+889

5G NR (869-894MHz)	SCS	Carrier	Bandwidth (MHz)	Non-Continue Channel (MHz)
	30KHz	2CC	10+10	874+889

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**4.3 Test Support Unit**

Description	Manufacture	Model No.	S/N
Notebook	ThinkPad	K27	/

**4.4 Measurement Uncertainty**

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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### 4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

### 4.6 Test Facility

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

#### • CNAS

Compliance Certification Services (Kunshan) Inc. is accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Registration No. CNAS L4354

#### • A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

#### • ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

#### • VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

### 4.7 Deviation from Standards

None

### 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
<b>RF Conducted Test</b>						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2022	04/15/2023
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2022	08/26/2023
5	Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
6	Vector Signal Generator	R&S	SMW200A	110074	10/12/2021	10/11/2022
7	Radio Communication Test Station	Anritsu	MT8000A	6262012849	09/23/2021	09/22/2022
8	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	09/23/2021	09/22/2022
9	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022
10	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2022	04/15/2023
11	Power Meter	Anritsu	ML2495A	1445010	04/15/2022	04/14/2023
12	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
13	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
14	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
15	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
16	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
17	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
18	Conducted Test Cable	/	RF01-RF04	/	04/15/2022	04/14/2023
19	Software	BST	TST-PASS	N/A	N/A	N/A
20	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2022	04/14/2023
21	Thermometer	Anymetre	TH603	CCS007	10/14/2021	10/13/2022
<b>RF Radiated Test</b>						
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Com-Power	AL-130R	10160008	04/13/2021	04/12/2023
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/20/2022	02/19/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	9170-515	02/22/2022	02/21/2023
10	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2022	04/14/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
12	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
13	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
14	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
15	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
16	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
17	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
18	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
19	Filter (1745 MHz~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
20	Filter (1922 MHz~1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
21	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
22	Filter (1532 MHz~1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
23	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
24	RE test cable	/	RE01-RE04	/	04/15/2022	04/14/2023



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## 6 Radio Spectrum Matter Test Results

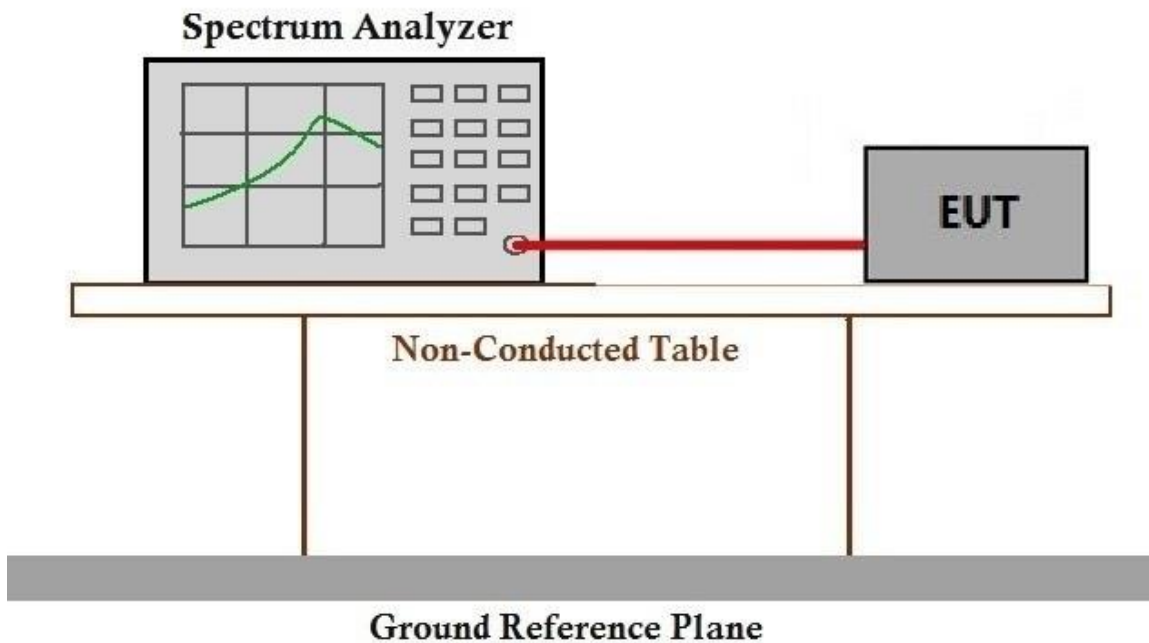
### 6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §90.635  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ERP ≤ 60dBm (859-869MHz)  
 ERP ≤ 56.99dBm (869-894MHz)

#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar  
 Test mode: Tx mode, Keep the EUT in transmitting mode.

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

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**5G NR (859-869MHz)**

1 Carrier _ SCS 15kHz (859MHz-869MHz)							
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		SISO Port 1 Conducted Power (dBm)	2*2 MIMO Conducted Power (dBm)	4*4 MIMO Conducted Power (dBm)
			Size	Off set			
10M	864	QPSK	Full	0	17.25	20.26	23.27
		16QAM	Full	0	17.17	20.18	23.19
		64QAM	Full	0	17.18	20.19	23.20
		256QAM	Full	0	17.22	20.23	23.24

1 Carrier _ SCS 15kHz (859MHz-869MHz)									
BW Arrange	Frequency	Modulation	RB Allocation		Ant	SISO ERP (dBm)	2*2 MIMO ERP (dBm)	4*4 MIMO ERP (dBm)	E.R.P Limit (dBm)
			Size	Off set	Gain (dBi)				
10M	864	QPSK	Full	0	2.93	18.03	21.04	24.05	60.00
		16QAM	Full	0	2.93	17.95	20.96	23.97	60.00
		64QAM	Full	0	2.93	17.96	20.97	23.98	60.00
		256QAM	Full	0	2.93	18.00	21.01	24.02	60.00

1 Carrier _ SCS 30kHz (859MHz-869MHz)							
BW Arrange	Frequency	Modulation	RB Allocation		SISO Port 1 Conducted Power (dBm)	2*2 MIMO Conducted Power (dBm)	4*4 MIMO Conducted Power (dBm)
			Size	Off set			
10M	881.5	QPSK	Full	0	17.47	20.48	23.49
		16QAM	Full	0	17.35	20.36	23.37
		64QAM	Full	0	17.32	20.33	23.34
		256QAM	Full	0	17.43	20.44	23.45

1 Carrier _ SCS 30kHz (859MHz-869MHz)									
BW Arrange	Frequency	Modulation	RB Allocation		Ant	SISO ERP (dBm)	2*2 MIMO ERP (dBm)	4*4 MIMO ERP (dBm)	E.R.P Limit (dBm)
			Size	Off set	Gain (dBi)				
10M	881.5	QPSK	Full	0	2.93	18.25	21.26	24.27	60.00
		16QAM	Full	0	2.93	18.13	21.14	24.15	60.00
		64QAM	Full	0	2.93	18.10	21.11	24.12	60.00
		256QAM	Full	0	2.93	18.21	21.22	24.23	60.00



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**5G NR (869-894MHz)**

1 Carrier _ SCS 15kHz (869MHz-894MHz)							
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		SISO Port 1 Conducted Power (dBm)	2*2 MIMO Conducted Power (dBm)	4*4 MIMO Conducted Power (dBm)
			Size	Off set			
10M	874	QPSK	Full	0	17.17	20.18	23.19
		16QAM	Full	0	17.11	20.12	23.13
		64QAM	Full	0	17.13	20.14	23.15
		256QAM	Full	0	17.15	20.16	23.17
	881.5	QPSK	Full	0	17.23	20.24	23.25
		16QAM	Full	0	17.14	20.15	23.16
		64QAM	Full	0	17.08	20.09	23.10
		256QAM	Full	0	17.04	20.05	23.06
	889	QPSK	Full	0	17.13	20.14	23.15
		16QAM	Full	0	17.11	20.12	23.13
		64QAM	Full	0	17.18	20.19	23.20
		256QAM	Full	0	17.16	20.17	23.18
15M	876.5	QPSK	Full	0	17.19	20.20	23.21
		16QAM	Full	0	17.19	20.20	23.21
		64QAM	Full	0	17.05	20.06	23.07
		256QAM	Full	0	17.03	20.04	23.05
	881.5	QPSK	Full	0	17.24	20.25	23.26
		16QAM	Full	0	17.05	20.06	23.07
		64QAM	Full	0	17.12	20.13	23.14
		256QAM	Full	0	17.02	20.03	23.04
	886.5	QPSK	Full	0	17.20	20.21	23.22
		16QAM	Full	0	17.15	20.16	23.17
		64QAM	Full	0	17.11	20.12	23.13
		256QAM	Full	0	17.08	20.09	23.10
20M	879	QPSK	Full	0	17.19	20.20	23.21
		16QAM	Full	0	17.06	20.07	23.08
		64QAM	Full	0	17.17	20.18	23.19
		256QAM	Full	0	17.16	20.17	23.18
	881.5	QPSK	Full	0	17.25	20.26	23.27
		16QAM	Full	0	17.03	20.04	23.05
		64QAM	Full	0	17.07	20.08	23.09
		256QAM	Full	0	17.21	20.22	23.23
	884	QPSK	Full	0	17.18	20.19	23.20
		16QAM	Full	0	17.15	20.16	23.17
		64QAM	Full	0	17.13	20.14	23.15
		256QAM	Full	0	17.07	20.08	23.09



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1 Carrier _ SCS 15kHz (869MHz-894MHz)									
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		Ant	SISO ERP (dBm)	2*2 MIMO ERP (dBm)	4*4 MIMO ERP (dBm)	E.R.P Limit (dBm)
			Size	Off set	Gain (dBi)				
10M	874	QPSK	Full	0	2.93	17.95	20.96	23.97	56.99
		16QAM	Full	0	2.93	17.89	20.90	23.91	56.99
		64QAM	Full	0	2.93	17.91	20.92	23.93	56.99
		256QAM	Full	0	2.93	17.93	20.94	23.95	56.99
	881.5	QPSK	Full	0	2.93	18.01	21.02	24.03	56.99
		16QAM	Full	0	2.93	17.92	20.93	23.94	56.99
		64QAM	Full	0	2.93	17.86	20.87	23.88	56.99
		256QAM	Full	0	2.93	17.82	20.83	23.84	56.99
	889	QPSK	Full	0	2.93	17.91	20.92	23.93	56.99
		16QAM	Full	0	2.93	17.89	20.90	23.91	56.99
		64QAM	Full	0	2.93	17.96	20.97	23.98	56.99
		256QAM	Full	0	2.93	17.94	20.95	23.96	56.99
15M	876.5	QPSK	Full	0	2.93	17.97	20.98	23.99	56.99
		16QAM	Full	0	2.93	17.97	20.98	23.99	56.99
		64QAM	Full	0	2.93	17.83	20.84	23.85	56.99
		256QAM	Full	0	2.93	17.81	20.82	23.83	56.99
	881.5	QPSK	Full	0	2.93	18.02	21.03	24.04	56.99
		16QAM	Full	0	2.93	17.83	20.84	23.85	56.99
		64QAM	Full	0	2.93	17.90	20.91	23.92	56.99
		256QAM	Full	0	2.93	17.80	20.81	23.82	56.99
	886.5	QPSK	Full	0	2.93	17.98	20.99	24.00	56.99
		16QAM	Full	0	2.93	14.93	17.94	20.95	56.99
		64QAM	Full	0	2.93	17.89	20.90	23.91	56.99
		256QAM	Full	0	2.93	17.86	20.87	23.88	56.99
20M	879	QPSK	Full	0	2.93	17.97	20.98	23.99	56.99
		16QAM	Full	0	2.93	17.84	20.85	23.86	56.99
		64QAM	Full	0	2.93	17.95	20.96	23.97	56.99
		256QAM	Full	0	2.93	17.94	20.95	23.96	56.99
	881.5	QPSK	Full	0	2.93	18.03	21.04	24.05	56.99
		16QAM	Full	0	2.93	17.81	20.82	23.83	56.99
		64QAM	Full	0	2.93	17.85	20.86	23.87	56.99
		256QAM	Full	0	2.93	17.99	21.00	24.01	56.99
	884	QPSK	Full	0	2.93	17.96	20.97	23.98	56.99
		16QAM	Full	0	2.93	17.93	20.94	23.95	56.99
		64QAM	Full	0	2.93	17.91	20.92	23.93	56.99
		256QAM	Full	0	2.93	17.85	20.86	23.87	56.99



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2 Carriers _ SCS 15kHz (869MHz-894MHz)							
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		SISO Port 1 Conducted Power (dBm)	2*2 MIMO Conducted Power (dBm)	4*4 MIMO Conducted Power (dBm)
			Size	Off set			
10+10M	874+884	QPSK	Full	0	17.22	20.23	23.24
		16QAM	Full	0	17.13	20.14	23.15
		64QAM	Full	0	17.21	20.22	23.23
		256QAM	Full	0	17.18	20.19	23.20
	876.5+886.5	QPSK	Full	0	17.19	20.20	23.21
		16QAM	Full	0	17.15	20.16	23.17
		64QAM	Full	0	17.12	20.13	23.14
		256QAM	Full	0	17.06	20.07	23.08
	879+889	QPSK	Full	0	17.17	20.18	23.19
		16QAM	Full	0	17.09	20.10	23.11
		64QAM	Full	0	17.13	20.14	23.15
		256QAM	Full	0	17.09	20.10	23.11

2 Carriers _ SCS 15kHz (869MHz-894MHz)									
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		Ant	SISO ERP (dBm)	2*2 MIMO ERP (dBm)	4*4 MIMO ERP (dBm)	E.R.P Limit (dBm)
			Size	Off set	Gain (dBi)				
10+10M	874+884	QPSK	Full	0	2.93	18.00	21.01	24.02	56.99
		16QAM	Full	0	2.93	17.91	20.92	23.93	56.99
		64QAM	Full	0	2.93	17.99	21.00	24.01	56.99
		256QAM	Full	0	2.93	17.96	20.97	23.98	56.99
	876.5+886.5	QPSK	Full	0	2.93	17.97	20.98	23.99	56.99
		16QAM	Full	0	2.93	17.93	20.94	23.95	56.99
		64QAM	Full	0	2.93	17.90	20.91	23.92	56.99
		256QAM	Full	0	2.93	17.84	20.85	23.86	56.99
	879+889	QPSK	Full	0	2.93	17.95	20.96	23.97	56.99
		16QAM	Full	0	2.93	17.87	20.88	23.89	56.99
		64QAM	Full	0	2.93	17.91	20.92	23.93	56.99
		256QAM	Full	0	2.93	17.87	20.88	23.89	56.99



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1 Carrier SCS 30kHz (869MHz-894MHz)							
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		SISO Port 1 Conducted Power (dBm)	2*2 MIMO Conducted Power (dBm)	4*4 MIMO Conducted Power (dBm)
			Size	Off set			
10M	874	QPSK	Full	0	17.44	20.45	23.46
		16QAM	Full	0	17.31	20.32	23.33
		64QAM	Full	0	17.38	20.39	23.40
		256QAM	Full	0	17.45	20.46	23.47
	881.5	QPSK	Full	0	17.50	20.51	23.52
		16QAM	Full	0	17.27	20.28	23.29
		64QAM	Full	0	17.43	20.44	23.45
		256QAM	Full	0	17.29	20.30	23.31
	889	QPSK	Full	0	17.49	20.50	23.51
		16QAM	Full	0	17.34	20.35	23.36
		64QAM	Full	0	17.39	20.40	23.41
		256QAM	Full	0	17.44	20.45	23.46
15M	876.5	QPSK	Full	0	17.46	20.47	23.48
		16QAM	Full	0	17.32	20.33	23.34
		64QAM	Full	0	17.37	20.38	23.39
		256QAM	Full	0	17.27	20.28	23.29
	881.5	QPSK	Full	0	17.48	20.49	23.50
		16QAM	Full	0	17.37	20.38	23.39
		64QAM	Full	0	17.29	20.30	23.31
		256QAM	Full	0	17.40	20.41	23.42
	886.5	QPSK	Full	0	17.50	20.51	23.52
		16QAM	Full	0	17.38	20.39	23.40
		64QAM	Full	0	17.47	20.48	23.49
		256QAM	Full	0	17.41	20.42	23.43
20M	879	QPSK	Full	0	17.32	20.33	23.34
		16QAM	Full	0	17.48	20.49	23.50
		64QAM	Full	0	17.43	20.44	23.45
		256QAM	Full	0	17.36	20.37	23.38
	881.5	QPSK	Full	0	17.47	20.48	23.49
		16QAM	Full	0	17.35	20.36	23.37
		64QAM	Full	0	17.37	20.38	23.39
		256QAM	Full	0	17.29	20.30	23.31
	884	QPSK	Full	0	17.46	20.47	23.48
		16QAM	Full	0	17.28	20.29	23.30
		64QAM	Full	0	17.29	20.30	23.31
		256QAM	Full	0	17.27	20.28	23.29



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# Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800146501

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1 Carrier _ SCS 30kHz (869MHz-894MHz)									
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		Ant	SISO ERP (dBm)	2*2 MIMO ERP (dBm)	4*4 MIMO ERP (dBm)	E.R.P Limit (dBm)
			Size	Off set	Gain (dBi)				
10M	874	QPSK	Full	0	2.93	18.22	21.23	24.24	56.99
		16QAM	Full	0	2.93	18.09	21.10	24.11	56.99
		64QAM	Full	0	2.93	18.16	21.17	24.18	56.99
		256QAM	Full	0	2.93	18.23	21.24	24.25	56.99
	881.5	QPSK	Full	0	2.93	18.28	21.29	24.30	56.99
		16QAM	Full	0	2.93	18.05	21.06	24.07	56.99
		64QAM	Full	0	2.93	18.21	21.22	24.23	56.99
		256QAM	Full	0	2.93	18.07	21.08	24.09	56.99
	889	QPSK	Full	0	2.93	18.27	21.28	24.29	56.99
		16QAM	Full	0	2.93	18.12	21.13	24.14	56.99
		64QAM	Full	0	2.93	18.17	21.18	24.19	56.99
		256QAM	Full	0	2.93	18.22	21.23	24.24	56.99
15M	876.5	QPSK	Full	0	2.93	18.24	21.25	24.26	56.99
		16QAM	Full	0	2.93	18.10	21.11	24.12	56.99
		64QAM	Full	0	2.93	18.15	21.16	24.17	56.99
		256QAM	Full	0	2.93	18.05	21.06	24.07	56.99
	881.5	QPSK	Full	0	2.93	18.26	21.27	24.28	56.99
		16QAM	Full	0	2.93	18.15	21.16	24.17	56.99
		64QAM	Full	0	2.93	18.07	21.08	24.09	56.99
		256QAM	Full	0	2.93	18.18	21.19	24.20	56.99
	886.5	QPSK	Full	0	2.93	18.28	21.29	24.30	56.99
		16QAM	Full	0	2.93	18.16	21.17	24.18	56.99
		64QAM	Full	0	2.93	18.25	21.26	24.27	56.99
		256QAM	Full	0	2.93	18.19	21.20	24.21	56.99
20M	879	QPSK	Full	0	2.93	18.10	21.11	24.12	56.99
		16QAM	Full	0	2.93	18.26	21.27	24.28	56.99
		64QAM	Full	0	2.93	18.21	21.22	24.23	56.99
		256QAM	Full	0	2.93	18.14	21.15	24.16	56.99
	881.5	QPSK	Full	0	2.93	18.25	21.26	24.27	56.99
		16QAM	Full	0	2.93	18.13	21.14	24.15	56.99
		64QAM	Full	0	2.93	18.15	21.16	24.17	56.99
		256QAM	Full	0	2.93	18.07	21.08	24.09	56.99
	884	QPSK	Full	0	2.93	18.24	21.25	24.26	56.99
		16QAM	Full	0	2.93	18.06	21.07	24.08	56.99
		64QAM	Full	0	2.93	18.07	21.08	24.09	56.99
		256QAM	Full	0	2.93	18.05	21.06	24.07	56.99



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2 Carriers _ SCS 30kHz (869MHz-894MHz)							
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		SISO Port 1 Conducted Power (dBm)	2*2 MIMO Conducted Power (dBm)	4*4 MIMO Conducted Power (dBm)
			Size	Off set			
10+10M	874+884	QPSK	Full	0	17.48	20.48	23.50
		16QAM	Full	0	17.32	20.32	23.34
		64QAM	Full	0	17.29	20.29	23.31
		256QAM	Full	0	17.25	20.25	23.27
	876.5+886.5	QPSK	Full	0	17.47	20.47	23.49
		16QAM	Full	0	17.32	20.32	23.34
		64QAM	Full	0	17.33	20.33	23.35
		256QAM	Full	0	17.50	20.50	23.52
	879+889	QPSK	Full	0	17.41	20.41	23.43
		16QAM	Full	0	17.28	20.28	23.30
		64QAM	Full	0	17.38	20.38	23.40
		256QAM	Full	0	17.31	20.31	23.33

2 Carriers _ SCS 30kHz (869MHz-894MHz)									
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		Ant	SISO ERP (dBm)	2*2 MIMO ERP (dBm)	4*4 MIMO ERP (dBm)	E.R.P Limit (dBm)
			Size	Off set	Gain (dBi)				
10+10M	874+884	QPSK	Full	0	2.93	18.26	21.26	24.28	56.99
		16QAM	Full	0	2.93	18.10	21.10	24.12	56.99
		64QAM	Full	0	2.93	18.07	21.07	24.09	56.99
		256QAM	Full	0	2.93	18.03	21.03	24.05	56.99
	876.5+886.5	QPSK	Full	0	2.93	18.25	21.25	24.27	56.99
		16QAM	Full	0	2.93	18.10	21.10	24.12	56.99
		64QAM	Full	0	2.93	18.11	21.11	24.13	56.99
		256QAM	Full	0	2.93	18.28	21.28	24.30	56.99
	879+889	QPSK	Full	0	2.93	18.19	21.19	24.21	56.99
		16QAM	Full	0	2.93	18.06	21.06	24.08	56.99
		64QAM	Full	0	2.93	18.16	21.16	24.18	56.99
		256QAM	Full	0	2.93	18.09	21.09	24.11	56.99

Remark:

- 1.The EUT supports SISO working mode. Each antenna can be used as SISO working port. We only present the worst result, the test data of ant 1 port.
- 2.This EUT supports 2\*2 and 4\*4MIMO, For MIMO mode the output signals are considered completely uncorrelated, so the antenna gain is 3dBi.



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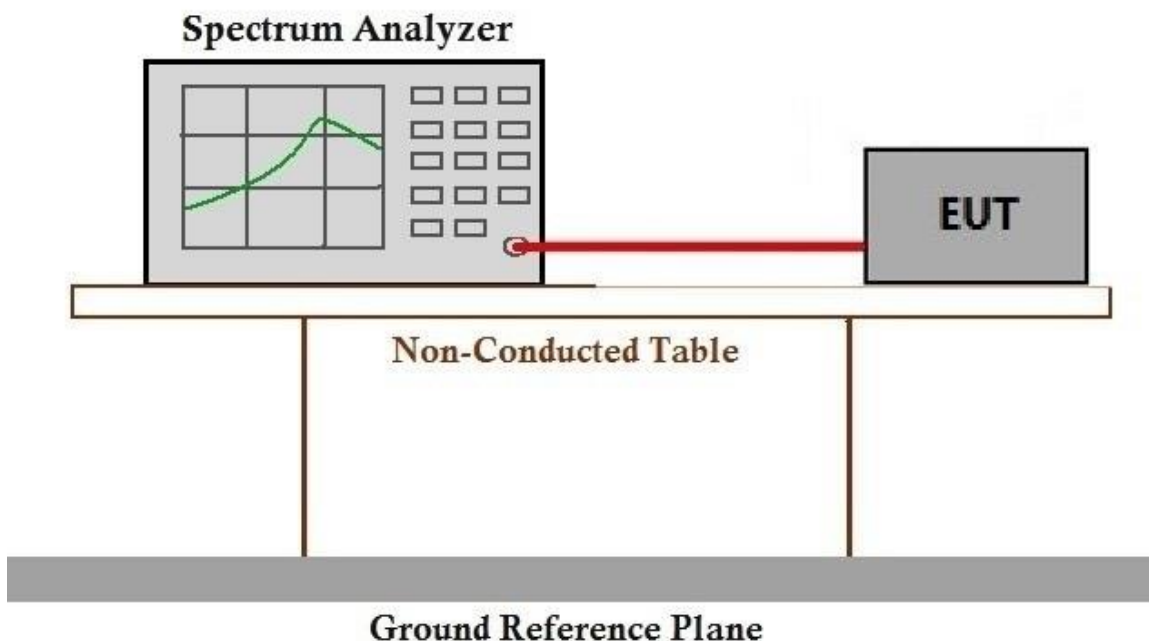
### 6.2 Peak-Average Ratio

Test Requirement: §22.913, §90.635  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤13dB

#### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar  
 Test mode: Tx mode, Keep the EUT in transmitting mode.

#### 6.2.2 Test Setup Diagram



#### 6.2.3 Measurement Data

Please refer to Appendix H for Peak-Average Ratio-FCC WWAN BS(869MHz-894MHz)



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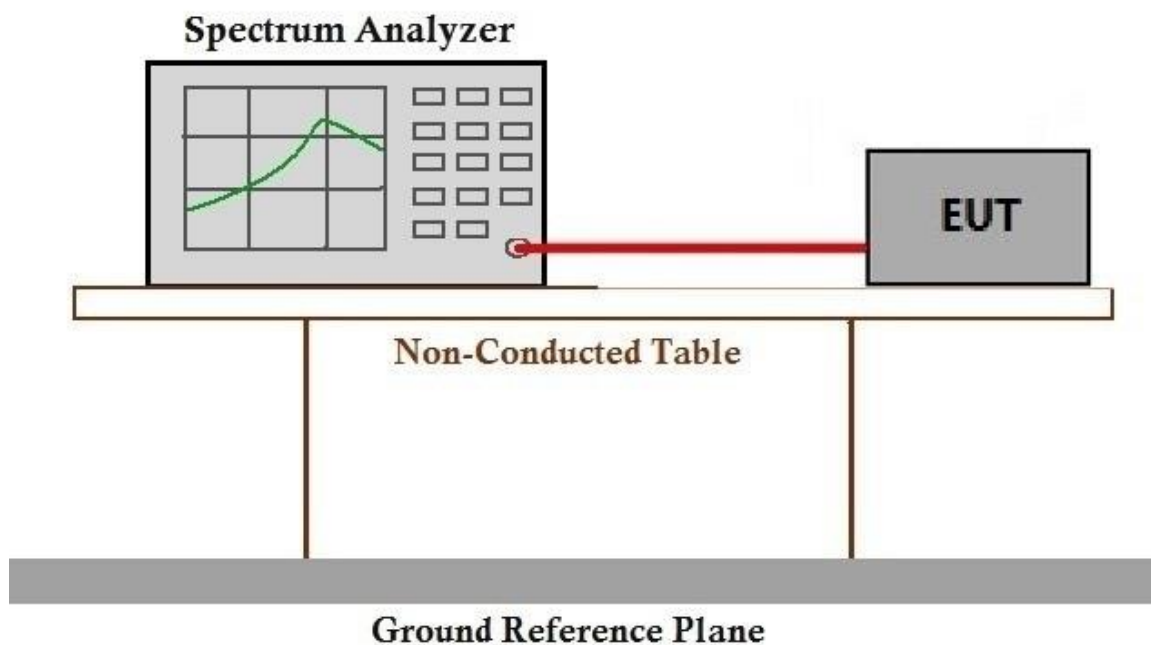
### 6.3 Bandwidth

Test Requirement: §2.1049(h)  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: OBW: No limit  
 EBW: No limit

#### 6.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar  
 Test mode: Tx mode, Keep the EUT in transmitting mode.

#### 6.3.2 Test Setup Diagram



#### 6.3.3 Measurement Data

Please refer to Appendix A for Bandwidth-FCC WWAN BS(859MHz-869MHz)  
 Appendix E for Bandwidth-FCC WWAN BS(869MHz-894MHz)



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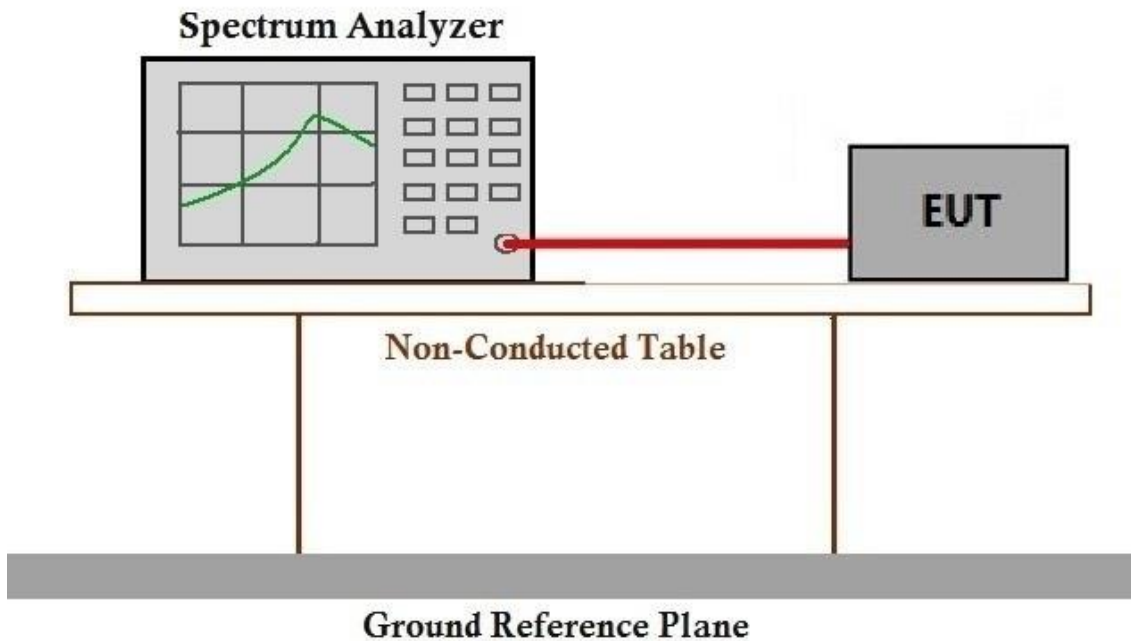
### 6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §90.691  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤-13dBm/MHz

#### 6.4.1 E.U.T. Operation

Operating Environment:  
 Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar  
 Test mode: Tx mode, Keep the EUT in transmitting mode.

#### 6.4.2 Test Setup Diagram



#### 6.4.3 Measurement Data

Please refer to Appendix B for Conducted band edge-FCC WWAN BS(859MHz-869MHz)  
 Appendix F for Conducted band edge-FCC WWAN BS(869MHz-894MHz)



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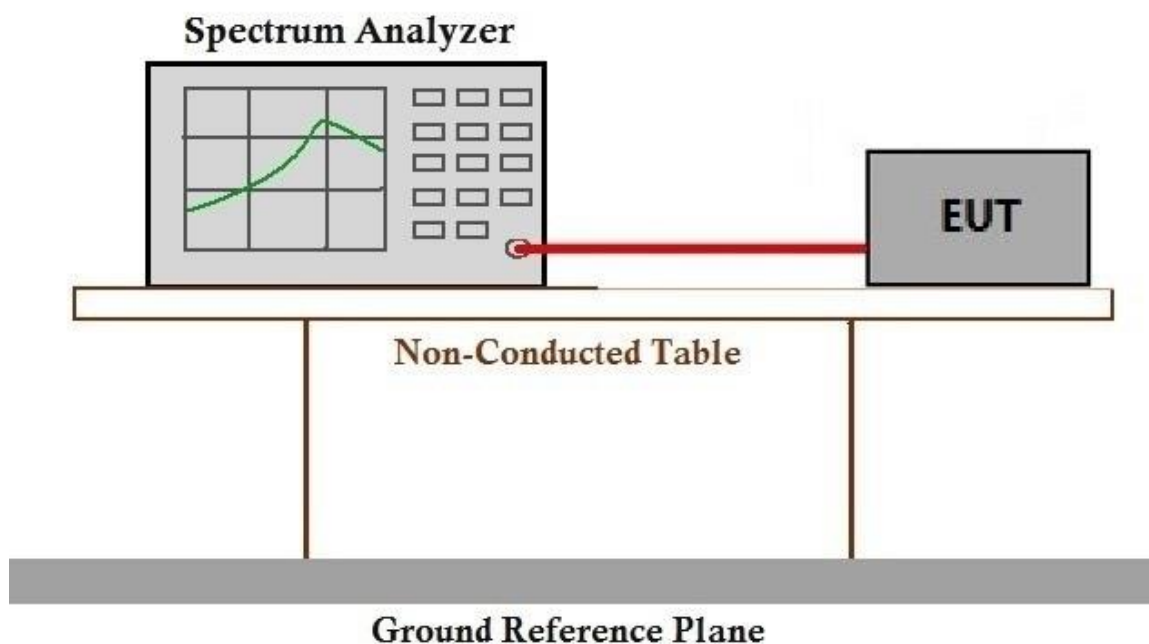
### 6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §90.691  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  $\leq -13\text{dBm/MHz}$

#### 6.5.1 E.U.T. Operation

Operating Environment:  
 Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar  
 Test mode: Tx mode, Keep the EUT in transmitting mode.

#### 6.5.2 Test Setup Diagram



#### 6.5.3 Measurement Data

Please refer to Appendix C for Conducted Spurious Emission-FCC WWAN BS(859MHz-869MHz)  
 Appendix G for Conducted Spurious Emission-FCC WWAN BS(869MHz-894MHz)



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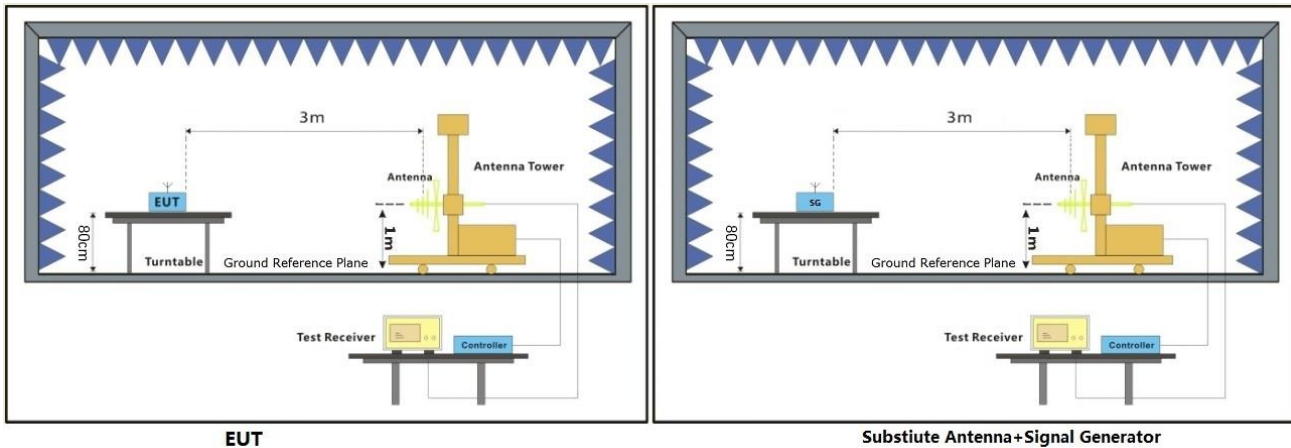
### 6.6 Radiated spurious radiation

Test Requirement: §2.1053  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤-13dBm/MHz

#### 6.6.1 E.U.T. Operation

Operating Environment:  
 Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar  
 Test mode: Tx mode, Keep the EUT in transmitting mode.

#### 6.6.2 Test Setup Diagram



EUT

Substitute Antenna+Signal Generator



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### 6.6.3 Measurement Procedure and Data

#### Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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5G NR (859MHz-869MHz) Carrier 1CC, SCS 15KHz, Continuous CA, Bandwidth: 10M _channel:864MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
245.8	265	Horizontal	-73.7	-13.0	-60.7	Pass
507.5	1	Horizontal	-71.8	-13.0	-58.8	Pass
863.0	99	Horizontal	-69.9	-13.0	-56.9	Pass
7203.4	287	Horizontal	-54.1	-13.0	-41.1	Pass
10884.3	143	Horizontal	-57.6	-13.0	-44.6	Pass
14518.1	5	Horizontal	-54.5	-13.0	-41.5	Pass
191.2	160	Vertical	-71.0	-13.0	-58.0	Pass
595.4	196	Vertical	-73.3	-13.0	-60.3	Pass
790.3	23	Vertical	-70.6	-13.0	-57.6	Pass
7363.5	146	Vertical	-54.2	-13.0	-41.2	Pass
10838.5	293	Vertical	-56.9	-13.0	-43.9	Pass
14505.9	162	Vertical	-57.7	-13.0	-44.7	Pass

5G NR (859MHz-869MHz) Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 10M _channel:864MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
48.7	306	Horizontal	-73.8	-13.0	-60.8	Pass
340.8	316	Horizontal	-72.7	-13.0	-59.7	Pass
806.2	72	Horizontal	-70.5	-13.0	-57.5	Pass
7132.0	102	Horizontal	-54.2	-13.0	-41.2	Pass
10749.9	147	Horizontal	-57.6	-13.0	-44.6	Pass
14426.3	106	Horizontal	-55.2	-13.0	-42.2	Pass
105.8	348	Vertical	-71.2	-13.0	-58.2	Pass
428.5	43	Vertical	-74.3	-13.0	-61.3	Pass
704.7	303	Vertical	-70.8	-13.0	-57.8	Pass
7361.8	150	Vertical	-54.8	-13.0	-41.8	Pass
10791.5	249	Vertical	-57.6	-13.0	-44.6	Pass
14380.5	53	Vertical	-58.3	-13.0	-45.3	Pass



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# Compliance Certification Services (Kunshan) Inc.

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5G NR (869MHz-894MHz) Carrier 1CC, SCS 15KHz, Continuous CA, Bandwidth: 10M _ channel:874MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
290.8	227	Horizontal	-70.3	-13.0	-57.3	Pass
565.6	349	Horizontal	-70.7	-13.0	-57.7	Pass
839.4	200	Horizontal	-71.0	-13.0	-58.0	Pass
7214.5	85	Horizontal	-51.0	-13.0	-38.0	Pass
10846.0	77	Horizontal	-57.9	-13.0	-44.9	Pass
14323.1	258	Horizontal	-52.8	-13.0	-39.8	Pass
170.4	309	Vertical	-71.0	-13.0	-58.0	Pass
685.8	124	Vertical	-74.6	-13.0	-61.6	Pass
974.5	287	Vertical	-69.1	-13.0	-56.1	Pass
7266.9	165	Vertical	-53.3	-13.0	-40.3	Pass
10709.3	4	Vertical	-55.0	-13.0	-42.0	Pass
14305.0	282	Vertical	-54.7	-13.0	-41.7	Pass

5G NR (869MHz-894MHz) Carrier 1CC, SCS 15KHz, Continuous CA, Bandwidth: 10M _ channel:881.5MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
293.1	280	Horizontal	-73.6	-13.0	-60.6	Pass
571.0	27	Horizontal	-71.4	-13.0	-58.4	Pass
917.2	30	Horizontal	-69.4	-13.0	-56.4	Pass
7369.8	83	Horizontal	-53.9	-13.0	-40.9	Pass
11016.0	195	Horizontal	-57.0	-13.0	-44.0	Pass
14651.7	216	Horizontal	-54.5	-13.0	-41.5	Pass
206.9	43	Vertical	-70.9	-13.0	-57.9	Pass
635.9	349	Vertical	-72.9	-13.0	-59.9	Pass
878.3	266	Vertical	-69.9	-13.0	-56.9	Pass
7373.3	175	Vertical	-54.2	-13.0	-41.2	Pass
11028.5	53	Vertical	-56.3	-13.0	-43.3	Pass
14609.2	101	Vertical	-57.7	-13.0	-44.7	Pass



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5G NR (869MHz-894MHz) Carrier 1CC, SCS 15KHz, Continuous CA, Bandwidth: 10M _ channel:889MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
245.6	203	Horizontal	-70.0	-13.0	-57.0	Pass
553.2	123	Horizontal	-75.2	-13.0	-62.2	Pass
845.7	125	Horizontal	-68.4	-13.0	-55.4	Pass
7547.0	54	Horizontal	-60.8	-13.0	-47.8	Pass
11158.9	133	Horizontal	-58.3	-13.0	-45.3	Pass
14892.4	298	Horizontal	-52.5	-13.0	-39.5	Pass
259.5	30	Vertical	-73.2	-13.0	-60.2	Pass
631.9	121	Vertical	-73.8	-13.0	-60.8	Pass
959.9	218	Vertical	-69.3	-13.0	-56.3	Pass
7550.4	78	Vertical	-50.5	-13.0	-37.5	Pass
11194.2	271	Vertical	-61.3	-13.0	-48.3	Pass
14926.8	155	Vertical	-50.0	-13.0	-37.0	Pass

5G NR (869MHz-894MHz) Carrier 1CC, SCS 15KHz, Continuous CA, Bandwidth: 15M _ channel:876.5MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
290.8	227	Horizontal	-70.3	-13.0	-57.3	Pass
565.6	349	Horizontal	-70.7	-13.0	-57.7	Pass
839.4	200	Horizontal	-71.0	-13.0	-58.0	Pass
7214.5	85	Horizontal	-51.0	-13.0	-38.0	Pass
10846.0	77	Horizontal	-57.9	-13.0	-44.9	Pass
14323.1	258	Horizontal	-52.8	-13.0	-39.8	Pass
170.4	309	Vertical	-71.0	-13.0	-58.0	Pass
685.8	124	Vertical	-74.6	-13.0	-61.6	Pass
974.5	287	Vertical	-69.1	-13.0	-56.1	Pass
7266.9	165	Vertical	-53.3	-13.0	-40.3	Pass
10709.3	4	Vertical	-55.0	-13.0	-42.0	Pass
14305.0	282	Vertical	-54.7	-13.0	-41.7	Pass



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5G NR (869MHz-894MHz) Carrier 1CC, SCS 15KHz, Continuous CA, Bandwidth: 15M _ channel:881.5MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
292.4	319	Horizontal	-74.3	-13.0	-61.3	Pass
570.9	99	Horizontal	-71.5	-13.0	-58.5	Pass
916.3	321	Horizontal	-70.3	-13.0	-57.3	Pass
7369.0	298	Horizontal	-54.7	-13.0	-41.7	Pass
11015.9	314	Horizontal	-57.1	-13.0	-44.1	Pass
14651.3	171	Horizontal	-54.9	-13.0	-41.9	Pass
206.0	295	Vertical	-71.8	-13.0	-58.8	Pass
635.8	226	Vertical	-73.0	-13.0	-60.0	Pass
878.1	115	Vertical	-70.1	-13.0	-57.1	Pass
7372.7	115	Vertical	-54.8	-13.0	-41.8	Pass
11027.9	157	Vertical	-56.9	-13.0	-43.9	Pass
14609.1	179	Vertical	-57.8	-13.0	-44.8	Pass

5G NR (869MHz-894MHz) Carrier 1CC, SCS 15KHz, Continuous CA, Bandwidth: 15M _ channel:886.5MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
281.7	259	Horizontal	-71.0	-13.0	-58.0	Pass
575.4	272	Horizontal	-76.4	-13.0	-63.4	Pass
850.3	137	Horizontal	-69.5	-13.0	-56.5	Pass
7646.3	254	Horizontal	-61.9	-13.0	-48.9	Pass
11162.5	171	Horizontal	-59.3	-13.0	-46.3	Pass
14934.6	21	Horizontal	-53.4	-13.0	-40.4	Pass
311.8	145	Vertical	-74.2	-13.0	-61.2	Pass
657.7	280	Vertical	-74.6	-13.0	-61.6	Pass
1024.2	123	Vertical	-69.8	-13.0	-56.8	Pass
7562.5	37	Vertical	-51.1	-13.0	-38.1	Pass
11249.1	241	Vertical	-61.6	-13.0	-48.6	Pass
14975.6	108	Vertical	-51.2	-13.0	-38.2	Pass



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5G NR (869MHz-894MHz) Carrier 1CC, SCS 15KHz, Continuous CA, Bandwidth: 20M_channel:879MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
374.6	257	Horizontal	-70.9	-13.0	-57.9	Pass
665.3	46	Horizontal	-71.0	-13.0	-58.0	Pass
923.0	236	Horizontal	-71.8	-13.0	-58.8	Pass
7285.3	304	Horizontal	-51.1	-13.0	-38.1	Pass
10931.1	173	Horizontal	-58.1	-13.0	-45.1	Pass
14417.2	58	Horizontal	-53.6	-13.0	-40.6	Pass
230.8	88	Vertical	-71.3	-13.0	-58.3	Pass
751.3	162	Vertical	-75.5	-13.0	-62.5	Pass
995.3	184	Vertical	-69.2	-13.0	-56.2	Pass
7359.5	73	Vertical	-53.4	-13.0	-40.4	Pass
10763.2	312	Vertical	-55.7	-13.0	-42.7	Pass
14349.4	175	Vertical	-54.8	-13.0	-41.8	Pass

5G NR (869MHz-894MHz) Carrier 1CC, SCS 15KHz, Continuous CA, Bandwidth: 20M_channel:881.5MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
315.3	28	Horizontal	-73.7	-13.0	-60.7	Pass
639.4	141	Horizontal	-71.8	-13.0	-58.8	Pass
971.5	126	Horizontal	-70.1	-13.0	-57.1	Pass
7426.4	346	Horizontal	-54.8	-13.0	-41.8	Pass
11114.8	232	Horizontal	-57.9	-13.0	-44.9	Pass
14674.4	5	Horizontal	-54.6	-13.0	-41.6	Pass
261.5	205	Vertical	-71.1	-13.0	-58.1	Pass
723.9	206	Vertical	-73.3	-13.0	-60.3	Pass
928.6	317	Vertical	-70.0	-13.0	-57.0	Pass
7388.3	229	Vertical	-55.1	-13.0	-42.1	Pass
11048.6	315	Vertical	-56.3	-13.0	-43.3	Pass
14701.4	214	Vertical	-58.3	-13.0	-45.3	Pass

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5G NR (869MHz-894MHz) Carrier 1CC, SCS 15KHz, Continuous CA, Bandwidth: 20M _ channel:884MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
283.8	22	Horizontal	-70.1	-13.0	-57.1	Pass
611.3	324	Horizontal	-75.3	-13.0	-62.3	Pass
943.1	61	Horizontal	-69.1	-13.0	-56.1	Pass
7609.3	175	Horizontal	-61.4	-13.0	-48.4	Pass
11205.0	31	Horizontal	-59.1	-13.0	-46.1	Pass
14938.3	46	Horizontal	-53.0	-13.0	-40.0	Pass
268.8	200	Vertical	-73.9	-13.0	-60.9	Pass
676.2	60	Vertical	-74.7	-13.0	-61.7	Pass
1047.2	248	Vertical	-69.4	-13.0	-56.4	Pass
7602.5	300	Vertical	-51.4	-13.0	-38.4	Pass
11269.5	319	Vertical	-61.8	-13.0	-48.8	Pass
14940.2	322	Vertical	-50.4	-13.0	-37.4	Pass

5G NR (869MHz-894MHz) Carrier 2CC, SCS 15KHz, Continuous CA, Bandwidth: 10M+10M _ channel:874+884MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
360.3	188	Horizontal	-70.6	-13.0	-57.6	Pass
665.5	3	Horizontal	-71.6	-13.0	-58.6	Pass
872.2	81	Horizontal	-71.9	-13.0	-58.9	Pass
7255.9	253	Horizontal	-51.2	-13.0	-38.2	Pass
10942.4	113	Horizontal	-58.3	-13.0	-45.3	Pass
14378.9	143	Horizontal	-53.2	-13.0	-40.2	Pass
221.2	103	Vertical	-71.6	-13.0	-58.6	Pass
699.0	322	Vertical	-75.3	-13.0	-62.3	Pass
1041.4	288	Vertical	-69.8	-13.0	-56.8	Pass
7360.8	34	Vertical	-53.9	-13.0	-40.9	Pass
10775.6	175	Vertical	-55.3	-13.0	-42.3	Pass
14394.2	146	Vertical	-55.0	-13.0	-42.0	Pass



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5G NR (869MHz-894MHz) Carrier 2CC, SCS 15KHz, Continuous CA, Bandwidth: 10M+10M _ channel:876.5+886.5MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
387.4	49	Horizontal	-73.6	-13.0	-60.6	Pass
586.1	28	Horizontal	-72.2	-13.0	-59.2	Pass
970.7	34	Horizontal	-69.8	-13.0	-56.8	Pass
7416.2	193	Horizontal	-54.7	-13.0	-41.7	Pass
11079.5	345	Horizontal	-57.1	-13.0	-44.1	Pass
14691.1	318	Horizontal	-55.1	-13.0	-42.1	Pass
279.2	165	Vertical	-71.1	-13.0	-58.1	Pass
716.6	312	Vertical	-73.9	-13.0	-60.9	Pass
945.6	89	Vertical	-70.8	-13.0	-57.8	Pass
7446.4	166	Vertical	-54.6	-13.0	-41.6	Pass
11060.3	57	Vertical	-56.7	-13.0	-43.7	Pass
14617.1	212	Vertical	-58.2	-13.0	-45.2	Pass

5G NR (869MHz-894MHz) Carrier 2CC, SCS 15KHz, Continuous CA, Bandwidth: 10M+10M _ channel:879+889MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
340.3	5	Horizontal	-70.9	-13.0	-57.9	Pass
626.7	279	Horizontal	-75.8	-13.0	-62.8	Pass
890.1	177	Horizontal	-69.0	-13.0	-56.0	Pass
7578.8	141	Horizontal	-61.7	-13.0	-48.7	Pass
11178.7	243	Horizontal	-58.8	-13.0	-45.8	Pass
14946.9	238	Horizontal	-53.3	-13.0	-40.3	Pass
301.6	187	Vertical	-73.5	-13.0	-60.5	Pass
648.2	47	Vertical	-74.7	-13.0	-61.7	Pass
1008.3	48	Vertical	-69.8	-13.0	-56.8	Pass
7592.5	215	Vertical	-50.8	-13.0	-37.8	Pass
11221.5	119	Vertical	-61.8	-13.0	-48.8	Pass
14955.2	322	Vertical	-50.0	-13.0	-37.0	Pass

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5G NR (869MHz-894MHz) Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 10M_channel:874MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
226.6	73	Horizontal	-70.8	-13.0	-57.8	Pass
463.0	194	Horizontal	-71.6	-13.0	-58.6	Pass
673.6	319	Horizontal	-71.2	-13.0	-58.2	Pass
7046.0	115	Horizontal	-51.1	-13.0	-38.1	Pass
10816.0	92	Horizontal	-58.6	-13.0	-45.6	Pass
14309.0	349	Horizontal	-53.8	-13.0	-40.8	Pass
441.8	10	Vertical	-71.9	-13.0	-58.9	Pass
660.9	62	Vertical	-75.5	-13.0	-62.5	Pass
924.5	176	Vertical	-69.5	-13.0	-56.5	Pass
7084.8	230	Vertical	-53.8	-13.0	-40.8	Pass
10568.2	315	Vertical	-55.2	-13.0	-42.2	Pass
14266.9	44	Vertical	-55.6	-13.0	-42.6	Pass

5G NR (869MHz-894MHz) Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 10M_channel:881.5MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
175.8	275	Horizontal	-70.7	-13.0	-57.7	Pass
518.5	44	Horizontal	-71.2	-13.0	-58.2	Pass
647.2	117	Horizontal	-71.8	-13.0	-58.8	Pass
7130.8	136	Horizontal	-51.6	-13.0	-38.6	Pass
10799.2	308	Horizontal	-58.7	-13.0	-45.7	Pass
14254.3	82	Horizontal	-53.1	-13.0	-40.1	Pass
154.1	334	Vertical	-72.0	-13.0	-59.0	Pass
569.8	321	Vertical	-75.0	-13.0	-62.0	Pass
897.0	243	Vertical	-69.2	-13.0	-56.2	Pass
7155.0	1	Vertical	-53.8	-13.0	-40.8	Pass
10555.9	199	Vertical	-55.1	-13.0	-42.1	Pass
14298.7	147	Vertical	-54.9	-13.0	-41.9	Pass

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# Compliance Certification Services (Kunshan) Inc.

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5G NR (869MHz-894MHz) Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 10M _ channel:889MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
236.6	228	Horizontal	-71.3	-13.0	-58.3	Pass
518.6	82	Horizontal	-71.3	-13.0	-58.3	Pass
786.0	86	Horizontal	-71.1	-13.0	-58.1	Pass
7081.0	274	Horizontal	-51.8	-13.0	-38.8	Pass
10705.3	220	Horizontal	-58.2	-13.0	-45.2	Pass
14269.7	264	Horizontal	-53.1	-13.0	-40.1	Pass
133.8	166	Vertical	-71.1	-13.0	-58.1	Pass
680.5	179	Vertical	-75.0	-13.0	-62.0	Pass
893.1	304	Vertical	-69.5	-13.0	-56.5	Pass
7240.1	134	Vertical	-53.4	-13.0	-40.4	Pass
10650.3	109	Vertical	-55.4	-13.0	-42.4	Pass
14170.2	169	Vertical	-54.9	-13.0	-41.9	Pass

5G NR (869MHz-894MHz) Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 15M _ channel:876.5MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
250.6	319	Horizontal	-70.8	-13.0	-57.8	Pass
370.9	218	Horizontal	-71.3	-13.0	-58.3	Pass
657.0	281	Horizontal	-71.6	-13.0	-58.6	Pass
7177.4	84	Horizontal	-51.2	-13.0	-38.2	Pass
10653.7	299	Horizontal	-58.7	-13.0	-45.7	Pass
14171.7	98	Horizontal	-53.4	-13.0	-40.4	Pass
150.8	18	Vertical	-71.1	-13.0	-58.1	Pass
496.5	311	Vertical	-75.5	-13.0	-62.5	Pass
791.9	6	Vertical	-69.7	-13.0	-56.7	Pass
7251.1	31	Vertical	-53.5	-13.0	-40.5	Pass
10549.7	144	Vertical	-55.8	-13.0	-42.8	Pass
14172.0	48	Vertical	-55.2	-13.0	-42.2	Pass



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5G NR (869MHz-894MHz) Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 15M _ channel:881.5MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
142.0	335	Horizontal	-71.3	-13.0	-58.3	Pass
433.7	344	Horizontal	-71.0	-13.0	-58.0	Pass
679.0	298	Horizontal	-71.5	-13.0	-58.5	Pass
7115.9	28	Horizontal	-51.9	-13.0	-38.9	Pass
10671.4	287	Horizontal	-58.8	-13.0	-45.8	Pass
14219.9	260	Horizontal	-53.5	-13.0	-40.5	Pass
142.6	334	Vertical	-71.7	-13.0	-58.7	Pass
639.0	239	Vertical	-75.1	-13.0	-62.1	Pass
793.5	331	Vertical	-69.7	-13.0	-56.7	Pass
7214.9	64	Vertical	-53.4	-13.0	-40.4	Pass
10572.0	186	Vertical	-55.5	-13.0	-42.5	Pass
14226.2	355	Vertical	-55.6	-13.0	-42.6	Pass

5G NR (869MHz-894MHz) Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 15M _ channel:886.5MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
229.2	181	Horizontal	-70.7	-13.0	-57.7	Pass
387.4	224	Horizontal	-70.8	-13.0	-57.8	Pass
698.9	285	Horizontal	-71.2	-13.0	-58.2	Pass
7037.3	222	Horizontal	-51.6	-13.0	-38.6	Pass
10666.4	44	Horizontal	-58.4	-13.0	-45.4	Pass
14208.4	94	Horizontal	-53.3	-13.0	-40.3	Pass
204.9	220	Vertical	-71.1	-13.0	-58.1	Pass
572.9	339	Vertical	-75.1	-13.0	-62.1	Pass
876.6	303	Vertical	-69.3	-13.0	-56.3	Pass
7103.8	208	Vertical	-54.2	-13.0	-41.2	Pass
10532.8	241	Vertical	-55.1	-13.0	-42.1	Pass
14123.6	282	Vertical	-55.2	-13.0	-42.2	Pass



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5G NR (869MHz-894MHz) Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 20M_channel:879MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
143.7	327	Horizontal	-70.5	-13.0	-57.5	Pass
426.8	270	Horizontal	-70.9	-13.0	-57.9	Pass
690.3	191	Horizontal	-71.4	-13.0	-58.4	Pass
7151.6	30	Horizontal	-51.3	-13.0	-38.3	Pass
10842.2	68	Horizontal	-58.8	-13.0	-45.8	Pass
14270.2	331	Horizontal	-53.7	-13.0	-40.7	Pass
100.2	285	Vertical	-71.9	-13.0	-58.9	Pass
675.8	225	Vertical	-74.6	-13.0	-61.6	Pass
815.7	194	Vertical	-69.4	-13.0	-56.4	Pass
7225.5	118	Vertical	-54.2	-13.0	-41.2	Pass
10519.3	121	Vertical	-55.5	-13.0	-42.5	Pass
14153.4	207	Vertical	-55.7	-13.0	-42.7	Pass

5G NR (869MHz-894MHz) Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 20M_channel:881.5MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
95.0	145	Horizontal	-70.6	-13.0	-57.6	Pass
498.1	45	Horizontal	-71.5	-13.0	-58.5	Pass
824.2	122	Horizontal	-71.3	-13.0	-58.3	Pass
7162.0	233	Horizontal	-51.0	-13.0	-38.0	Pass
10655.6	283	Horizontal	-58.7	-13.0	-45.7	Pass
14229.8	358	Horizontal	-53.2	-13.0	-40.2	Pass
196.2	112	Vertical	-71.9	-13.0	-58.9	Pass
550.2	45	Vertical	-74.9	-13.0	-61.9	Pass
905.3	133	Vertical	-69.1	-13.0	-56.1	Pass
7096.3	278	Vertical	-53.4	-13.0	-40.4	Pass
10590.4	156	Vertical	-55.8	-13.0	-42.8	Pass
14217.7	27	Vertical	-55.4	-13.0	-42.4	Pass

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5G NR (869MHz-894MHz) Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 20M _ channel:884MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
217.3	214	Horizontal	-70.8	-13.0	-57.8	Pass
393.8	43	Horizontal	-70.9	-13.0	-57.9	Pass
717.4	176	Horizontal	-71.9	-13.0	-58.9	Pass
7139.7	242	Horizontal	-51.9	-13.0	-38.9	Pass
10735.1	123	Horizontal	-58.1	-13.0	-45.1	Pass
14208.5	160	Horizontal	-53.2	-13.0	-40.2	Pass
418.7	130	Vertical	-71.6	-13.0	-58.6	Pass
685.2	77	Vertical	-75.0	-13.0	-62.0	Pass
850.3	159	Vertical	-69.3	-13.0	-56.3	Pass
7074.1	130	Vertical	-53.4	-13.0	-40.4	Pass
10602.5	53	Vertical	-56.0	-13.0	-43.0	Pass
14269.5	358	Vertical	-55.1	-13.0	-42.1	Pass

5G NR (869MHz-894MHz) Carrier 2CC, SCS 30KHz, Continuous CA, Bandwidth: 10M+10M _ channel:874+884MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
226.0	133	Horizontal	-71.3	-13.0	-58.3	Pass
468.0	207	Horizontal	-71.3	-13.0	-58.3	Pass
656.3	66	Horizontal	-71.2	-13.0	-58.2	Pass
7158.7	207	Horizontal	-51.9	-13.0	-38.9	Pass
10796.4	193	Horizontal	-58.6	-13.0	-45.6	Pass
14230.5	135	Horizontal	-53.0	-13.0	-40.0	Pass
161.5	227	Vertical	-71.5	-13.0	-58.5	Pass
590.0	103	Vertical	-75.2	-13.0	-62.2	Pass
874.0	112	Vertical	-69.3	-13.0	-56.3	Pass
7076.9	284	Vertical	-53.8	-13.0	-40.8	Pass
10679.0	355	Vertical	-55.7	-13.0	-42.7	Pass
14234.5	276	Vertical	-55.3	-13.0	-42.3	Pass



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5G NR (869MHz-894MHz) Carrier 2CC, SCS 30KHz, Continuous CA, Bandwidth: 10M+10M _ channel:876.5+886.5MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
128.4	57	Horizontal	-70.4	-13.0	-57.4	Pass
441.6	231	Horizontal	-70.7	-13.0	-57.7	Pass
793.8	206	Horizontal	-71.6	-13.0	-58.6	Pass
7087.4	57	Horizontal	-51.2	-13.0	-38.2	Pass
10678.2	97	Horizontal	-58.5	-13.0	-45.5	Pass
14214.0	353	Horizontal	-53.2	-13.0	-40.2	Pass
149.9	67	Vertical	-71.5	-13.0	-58.5	Pass
499.8	217	Vertical	-75.0	-13.0	-62.0	Pass
810.2	254	Vertical	-69.7	-13.0	-56.7	Pass
7198.5	50	Vertical	-53.7	-13.0	-40.7	Pass
10706.2	332	Vertical	-55.5	-13.0	-42.5	Pass
14151.8	157	Vertical	-55.6	-13.0	-42.6	Pass

5G NR (869MHz-894MHz) Carrier 2CC, SCS 30KHz, Continuous CA, Bandwidth: 10M+10M _ channel:879+889MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
207.5	8	Horizontal	-70.9	-13.0	-57.9	Pass
411.2	331	Horizontal	-70.9	-13.0	-57.9	Pass
691.6	7	Horizontal	-71.5	-13.0	-58.5	Pass
7060.2	227	Horizontal	-51.4	-13.0	-38.4	Pass
10673.9	278	Horizontal	-58.4	-13.0	-45.4	Pass
14240.6	10	Horizontal	-53.7	-13.0	-40.7	Pass
299.8	344	Vertical	-71.7	-13.0	-58.7	Pass
590.1	193	Vertical	-75.6	-13.0	-62.6	Pass
921.0	258	Vertical	-70.0	-13.0	-57.0	Pass
7081.9	295	Vertical	-53.8	-13.0	-40.8	Pass
10661.2	121	Vertical	-55.1	-13.0	-42.1	Pass
14240.1	321	Vertical	-55.4	-13.0	-42.4	Pass



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5G NR (869MHz-894MHz) Carrier 2CC, SCS 15KHz, Non-Continuous CA, Bandwidth: 10M+10M _ channel:874+889MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
197.7	104	Horizontal	-71.4	-13.0	-58.4	Pass
281.5	262	Horizontal	-72.1	-13.0	-59.1	Pass
595.8	335	Horizontal	-72.0	-13.0	-59.0	Pass
7083.2	203	Horizontal	-52.7	-13.0	-39.7	Pass
10776.1	73	Horizontal	-59.4	-13.0	-46.4	Pass
14054.5	339	Horizontal	-54.0	-13.0	-41.0	Pass
513.4	19	Vertical	-72.3	-13.0	-59.3	Pass
582.7	157	Vertical	-75.6	-13.0	-62.6	Pass
723.1	360	Vertical	-70.3	-13.0	-57.3	Pass
6919.8	356	Vertical	-53.8	-13.0	-40.8	Pass
10642.9	210	Vertical	-56.3	-13.0	-43.3	Pass
14038.9	135	Vertical	-56.1	-13.0	-43.1	Pass

5G NR (869MHz-894MHz) Carrier 2CC, SCS 30KHz, Non-Continuous CA, Bandwidth: 10M+10M _ channel:874+889MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
134.7	295	Horizontal	-71.7	-13.0	-58.7	Pass
433.1	272	Horizontal	-71.9	-13.0	-58.9	Pass
538.2	168	Horizontal	-72.2	-13.0	-59.2	Pass
7047.0	316	Horizontal	-52.6	-13.0	-39.6	Pass
10795.1	289	Horizontal	-58.6	-13.0	-45.6	Pass
14179.4	279	Horizontal	-53.9	-13.0	-40.9	Pass
314.3	277	Vertical	-71.7	-13.0	-58.7	Pass
541.8	250	Vertical	-75.9	-13.0	-62.9	Pass
701.4	72	Vertical	-69.3	-13.0	-56.3	Pass
6992.4	309	Vertical	-54.8	-13.0	-41.8	Pass
10607.8	211	Vertical	-56.4	-13.0	-43.4	Pass
14061.5	19	Vertical	-56.1	-13.0	-43.1	Pass



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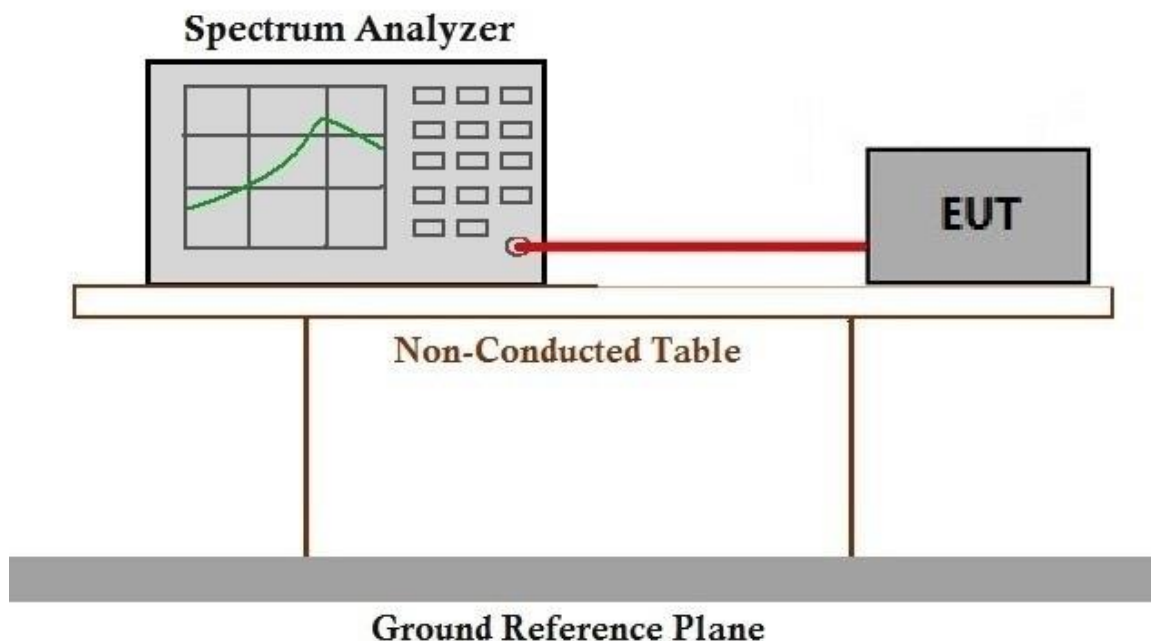
### 6.7 Frequency stability

Test Requirement: §2.1055  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: Fundamental emission stays within authorized frequency block

#### 6.7.1 E.U.T. Operation

Operating Environment:  
 Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar  
 Test mode: Tx mode, Keep the EUT in transmitting mode.

#### 6.7.2 Test Setup Diagram



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**6.7.3 Measurement Data**

Frequency Stability vs temperature:

1. Test for 5G NR Band n26 Downlink (Middle Channel 864MHz)

Temperature(°C)	Voltage (V dc)	Frequency Error (Hz)	Tolerance(ppm)
50	48.00	0	0
40	48.00	0	0
30	48.00	0	0
20	48.00	0	0
10	48.00	0	0
0	48.00	0	0
-10	48.00	0	0
-20	48.00	0	0
-30	48.00	0	0

Frequency Stability vs voltage:

1. Test for 5G NR Band n26 Downlink (Middle Channel 864MHz)

Voltage (V dc)	Temperature(°C)	Frequency Error (Hz)	Tolerance(ppm)
40.80	25	0	0
48.00	25	0	0
55.20	25	0	0

Remark:

- 1) Pretest with normal and extreme conditions, only the worst case data was showed in the test report.
- 2) We have tested all modulation and all Channel, but only the worst case data displayed in this report.



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Frequency Stability vs temperature:

1. Test for 5G NR Band n26 Downlink (Middle Channel 881.5MHz)

Temperature(°C)	Voltage (V dc)	Frequency Error (Hz)	Tolerance(ppm)
50	48.00	0	0
40	48.00	0	0
30	48.00	0	0
20	48.00	0	0
10	48.00	0	0
0	48.00	0	0
-10	48.00	0	0
-20	48.00	0	0
-30	48.00	0	0

Frequency Stability vs voltage:

1. Test for 5G NR Band n26 Downlink (Middle Channel 881.5MHz)

Voltage (V dc)	Temperature(°C)	Frequency Error (Hz)	Tolerance(ppm)
40.80	25	0	0
48.00	25	0	0
55.20	25	0	0

Remark:

- 1) Pretest with normal and extreme conditions, only the worst case data was showed in the test report.
- 2) We have tested all modulation and all Channel, but only the worst case data displayed in this report.



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## 7 Photographs - Test Setup

Please refer to test setup photo

## 8 Photographs - EUT Constructional Details

Please refer to external and internal photo

- End of the Report -



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