



## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800146401

Page: 1 of 48

# TEST REPORT

**Application No.:** KSCR2208001464AT  
**FCC ID:** OJFE62-N3-25  
**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 27  
**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		/

Authorized for issue by:				
		Damon Zhou		
		Damon Zhou / Project Engineer		
		Eric Lin		
		Eric Lin / Reviewer		

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Compliance Certification Services (Kunshan) Inc.  
EMC Laboratory

## 2 Test Summary

Test Item	FCC Rule No.	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50	PASS
Peak-Average Ratio	§27.50	PASS
Bandwidth	§2.1049(h)	PASS
Band Edge Compliance	§2.1051 §27.53	PASS
Spurious emissions at antenna terminals	§2.1051 §27.53	PASS
Radiated spurious radiation	§2.1053	PASS
Frequency stability	§2.1055 §27.54	PASS

### Remark:

EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

All modes have been tested and only record the worst test result.

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.

### Test method standard:

ANSI C63.26-2015

KDB 971168 D01 v03



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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:	5.64dBi (Provided by manufacturer)
Power Supply:	DC 48V
Frequency Band:	2496MHz to 2690MHz
Normal Output Power(EIRP):	36 ± 2dBm
Modulation Type:	5G NR: CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
MIMO:	4T4R MIMO,2T2R MIMO,SISO
Temperature Range:	-10℃ to 45℃

### 4.2 Test Frequency

5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Continue Channel (MHz)		
				Low	Middle	High
30KHz	1CC		20	2506	2593	2680
			40	2516	2593	2670
			60	2526	2593	2660
			80	2536	2593	2650
			100	2546	2593	2640

5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Continue Channel (MHz)		
				Low	Middle	High
30KHz	2CC		20+20	2506+2526	2583+2603	2660+2680
			80+80	2536+2616	2553+2633	2570+2650

5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Continue Channel (MHz)		
				Low	Middle	High
30KHz	3CC		60+60+60	2526+2586+2646	2533+2593+2653	2540+2600+2660

5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Continue Channel (MHz)		
				Low	Middle	High
30KHz	4CC		40+40+40+40	2516+2556+2596+2636	2533+2573+2613+2653	2550+2590+2630+2670



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5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Continue Channel (MHz)		
				Low	Middle	High
	30KHz	5CC	20+20+20+20+20	2506+2526+2546 +2566+2586	2553+2573+2593 +2613+2633	2600+2620+2640 +2660+2680

5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Continue Channel (MHz)		
				Low	Middle	High
	30KHz	6CC	20+20+20+20+20+20	2506+2526+2546 +2566+2586+2606	2543+2563+2583 +2603+2623+2643	2580+2600+2620 +2640+2660+2680

5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Non-Continue Channel (MHz)		
				Channel		
	30KHz	2CC	20+20	2506+2680		
			80+80	2536+2650		

5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Non-Continue Channel (MHz)		
	30KHz	3CC	60+60+60	2526+2593+2660		

5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Non-Continue Channel (MHz)		
	30KHz	4CC	40+40+40+40	2516+2567+2619+2670		

5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Non-Continue Channel (MHz)		
	30KHz	5CC	20+20+20+20+20	2506+2550+2593+2636+2680		

5G NR (2496-2690MHz)	SCS	Carrier	Bandwidth (MHz)	Non-Continue Channel (MHz)		
	30KHz	6CC	20+20+20+20+20+20	2506+2541+2576+2610+2645+2680		



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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	$8.4 \times 10^{-8}$
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	Agilent	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, §27.50

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: EIRP ≤ 56.34dBm

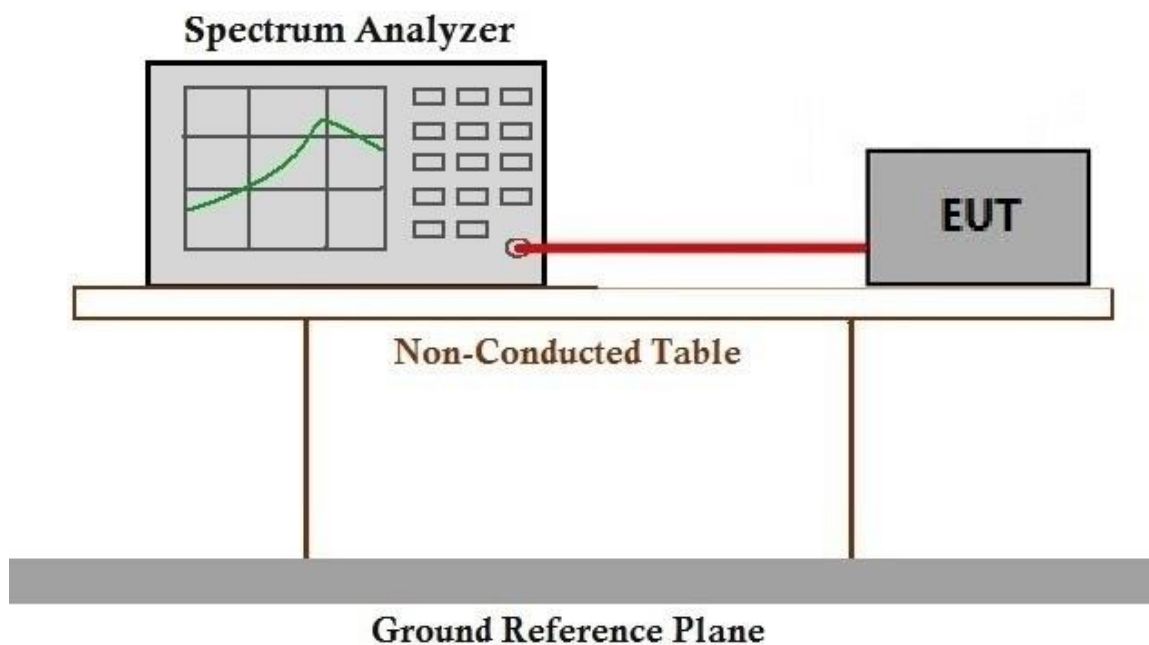
#### 6.1.1 E.U.T. Operation

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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### 1 Carriers \_ SCS 30kHz

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			
20M	2506	QPSK	Full	0	25.23	28.24	31.25
		16QAM	Full	0	25.21	28.22	31.23
		64QAM	Full	0	25.17	28.18	31.19
		256QAM	Full	0	25.19	28.20	31.21
	2593	QPSK	Full	0	25.34	28.35	31.36
		16QAM	Full	0	25.18	28.19	31.20
		64QAM	Full	0	25.27	28.28	31.29
		256QAM	Full	0	25.14	28.15	31.16
	2680	QPSK	Full	0	25.34	28.35	31.36
		16QAM	Full	0	25.23	28.24	31.25
		64QAM	Full	0	25.22	28.23	31.24
		256QAM	Full	0	25.26	28.27	31.28
40M	2516	QPSK	Full	0	25.34	28.35	31.36
		16QAM	Full	0	25.18	28.19	31.20
		64QAM	Full	0	25.21	28.22	31.23
		256QAM	Full	0	25.14	28.15	31.16
	2593	QPSK	Full	0	25.33	28.34	31.35
		16QAM	Full	0	25.25	28.26	31.27
		64QAM	Full	0	25.17	28.18	31.19
		256QAM	Full	0	25.21	28.22	31.23
	2670	QPSK	Full	0	25.29	28.30	31.31
		16QAM	Full	0	25.13	28.14	31.15
		64QAM	Full	0	25.20	28.21	31.22
		256QAM	Full	0	25.21	28.22	31.23
60M	2526	QPSK	Full	0	25.37	28.38	31.39
		16QAM	Full	0	25.13	28.14	31.15
		64QAM	Full	0	25.15	28.16	31.17
		256QAM	Full	0	25.21	28.22	31.23
	2593	QPSK	Full	0	25.27	28.28	31.29
		16QAM	Full	0	25.12	28.13	31.14
		64QAM	Full	0	25.13	28.14	31.15
		256QAM	Full	0	25.20	28.21	31.22
	2660	QPSK	Full	0	25.30	28.31	31.32
		16QAM	Full	0	25.18	28.19	31.20
		64QAM	Full	0	25.11	28.12	31.13
		256QAM	Full	0	25.24	28.25	31.26
80M	2536	QPSK	Full	0	25.28	28.29	31.30
		16QAM	Full	0	25.21	28.22	31.23
		64QAM	Full	0	25.15	28.16	31.17
		256QAM	Full	0	25.14	28.15	31.16
	2593	QPSK	Full	0	25.33	28.34	31.35
		16QAM	Full	0	25.22	28.23	31.24
		64QAM	Full	0	25.20	28.21	31.22
		256QAM	Full	0	25.18	28.19	31.20
	2650	QPSK	Full	0	25.28	28.29	31.30
		16QAM	Full	0	25.13	28.14	31.15
		64QAM	Full	0	25.21	28.22	31.23
		256QAM	Full	0	25.18	28.19	31.20
100M	2546	QPSK	Full	0	25.32	28.33	31.34



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	2593	16QAM	Full	0	25.24	28.25	31.26
		64QAM	Full	0	25.14	28.15	31.16
		256QAM	Full	0	25.19	28.20	31.21
		QPSK	Full	0	25.26	28.27	31.28
		16QAM	Full	0	25.16	28.17	31.18
		64QAM	Full	0	25.20	28.21	31.22
	2640	256QAM	Full	0	25.18	28.19	31.20
		QPSK	Full	0	25.32	28.33	31.34
		16QAM	Full	0	25.21	28.22	31.23
		64QAM	Full	0	25.23	28.24	31.25
		256QAM	Full	0	25.26	28.27	31.28

1 Carriers _ SCS 30kHz									
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		Ant Gain (dBi)	SISO EIRP (dBm)	2*2 MIMO EIRP (dBm)	4*4 MIMO EIRP (dBm)	E.I.R.P Limit (dBm)
			Size	Off set					
20M	2506	QPSK	Full	0	5.64	30.87	33.88	36.89	98.23
		16QAM	Full	0	5.64	30.85	33.86	36.87	98.23
		64QAM	Full	0	5.64	30.81	33.82	36.83	98.23
		256QAM	Full	0	5.64	30.83	33.84	36.85	98.23
	2593	QPSK	Full	0	5.64	30.98	33.99	37.00	98.23
		16QAM	Full	0	5.64	30.82	33.83	36.84	98.23
		64QAM	Full	0	5.64	30.91	33.92	36.93	98.23
		256QAM	Full	0	5.64	30.78	33.79	36.80	98.23
	2680	QPSK	Full	0	5.64	30.98	33.99	37.00	98.23
		16QAM	Full	0	5.64	30.87	33.88	36.89	98.23
		64QAM	Full	0	5.64	30.86	33.87	36.88	98.23
		256QAM	Full	0	5.64	30.90	33.91	36.92	98.23
40M	2516	QPSK	Full	0	5.64	30.98	33.99	37.00	101.24
		16QAM	Full	0	5.64	30.82	33.83	36.84	101.24
		64QAM	Full	0	5.64	30.85	33.86	36.87	101.24
		256QAM	Full	0	5.64	30.78	33.79	36.80	101.24
	2593	QPSK	Full	0	5.64	30.97	33.98	36.99	101.24
		16QAM	Full	0	5.64	30.89	33.90	36.91	101.24
		64QAM	Full	0	5.64	30.81	33.82	36.83	101.24
		256QAM	Full	0	5.64	30.85	33.86	36.87	101.24
	2670	QPSK	Full	0	5.64	30.93	33.94	36.95	101.24
		16QAM	Full	0	5.64	30.77	33.78	36.79	101.24
		64QAM	Full	0	5.64	30.84	33.85	36.86	101.24
		256QAM	Full	0	5.64	30.85	33.86	36.87	101.24
60M	2526	QPSK	Full	0	5.64	31.01	34.02	37.03	103
		16QAM	Full	0	5.64	30.77	33.78	36.79	103
		64QAM	Full	0	5.64	30.79	33.80	36.81	103
		256QAM	Full	0	5.64	30.85	33.86	36.87	103
	2593	QPSK	Full	0	5.64	30.91	33.92	36.93	103
		16QAM	Full	0	5.64	30.76	33.77	36.78	103
		64QAM	Full	0	5.64	30.77	33.78	36.79	103
		256QAM	Full	0	5.64	30.84	33.85	36.86	103
	2660	QPSK	Full	0	5.64	30.94	33.95	36.96	103
		16QAM	Full	0	5.64	30.82	33.83	36.84	103
		64QAM	Full	0	5.64	30.75	33.76	36.77	103



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		256QAM	Full	0	5.64	30.88	33.89	36.90	103
80M	2536	QPSK	Full	0	5.64	30.92	33.93	36.94	104.25
		16QAM	Full	0	5.64	30.85	33.86	36.87	104.25
		64QAM	Full	0	5.64	30.79	33.80	36.81	104.25
		256QAM	Full	0	5.64	30.78	33.79	36.80	104.25
	2593	QPSK	Full	0	5.64	30.97	33.98	36.99	104.25
		16QAM	Full	0	5.64	30.86	33.87	36.88	104.25
		64QAM	Full	0	5.64	30.84	33.85	36.86	104.25
		256QAM	Full	0	5.64	30.82	33.83	36.84	104.25
	2650	QPSK	Full	0	5.64	30.92	33.93	36.94	104.25
		16QAM	Full	0	5.64	30.77	33.78	36.79	104.25
		64QAM	Full	0	5.64	30.85	33.86	36.87	104.25
		256QAM	Full	0	5.64	30.82	33.83	36.84	104.25
100M	2546	QPSK	Full	0	5.64	30.96	33.97	36.98	105.22
		16QAM	Full	0	5.64	30.88	33.89	36.90	105.22
		64QAM	Full	0	5.64	30.78	33.79	36.80	105.22
		256QAM	Full	0	5.64	30.83	33.84	36.85	105.22
	2593	QPSK	Full	0	5.64	30.90	33.91	36.92	105.22
		16QAM	Full	0	5.64	30.80	33.81	36.82	105.22
		64QAM	Full	0	5.64	30.84	33.85	36.86	105.22
		256QAM	Full	0	5.64	30.82	33.83	36.84	105.22
	2640	QPSK	Full	0	5.64	30.96	33.97	36.98	105.22
		16QAM	Full	0	5.64	30.85	33.86	36.87	105.22
		64QAM	Full	0	5.64	30.87	33.88	36.89	105.22
		256QAM	Full	0	5.64	30.90	33.91	36.92	105.22

### 2 Carriers \_ SCS 30kHz

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			
20+20M	2506+2526	QPSK	Full	0	25.32	28.33	31.34
		16QAM	Full	0	25.15	28.16	31.17
		64QAM	Full	0	25.11	28.12	31.13
		256QAM	Full	0	25.15	28.16	31.17
	2583+2603	QPSK	Full	0	25.28	28.29	31.30
		16QAM	Full	0	25.09	28.10	31.11
		64QAM	Full	0	25.13	28.14	31.15
		256QAM	Full	0	25.20	28.21	31.22
	2660+2680	QPSK	Full	0	25.27	28.28	31.29
		16QAM	Full	0	25.16	28.17	31.18
		64QAM	Full	0	25.14	28.15	31.16
		256QAM	Full	0	25.16	28.17	31.18
80+80M	2536+2616	QPSK	Full	0	25.29	28.30	31.31
		16QAM	Full	0	25.24	28.25	31.26
		64QAM	Full	0	25.20	28.21	31.22
		256QAM	Full	0	25.12	28.13	31.14
	2553+2633	QPSK	Full	0	25.31	28.32	31.33



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		16QAM	Full	0	25.16	28.17	31.18
		64QAM	Full	0	25.25	28.26	31.27
		256QAM	Full	0	25.12	28.13	31.14
	2570+2650	QPSK	Full	0	25.30	28.31	31.32
		16QAM	Full	0	25.24	28.25	31.26
		64QAM	Full	0	25.14	28.15	31.16
		256QAM	Full	0	25.23	28.24	31.25

2 Carriers _ SCS 30kHz									
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		Ant	SISO EIRP (dBm)	2*2 MIMO EIRP (dBm)	4*4 MIMO EIRP (dBm)	E.I.R.P Limit (dBm)
			Size	Off set	Gain (dBi)				
20+20M	2506+2526	QPSK	Full	0	5.64	30.96	33.97	36.98	101.24
		16QAM	Full	0	5.64	30.79	33.80	36.81	101.24
		64QAM	Full	0	5.64	30.75	33.76	36.77	101.24
		256QAM	Full	0	5.64	30.79	33.80	36.81	101.24
	2583+2603	QPSK	Full	0	5.64	30.92	33.93	36.94	101.24
		16QAM	Full	0	5.64	30.73	33.74	36.75	101.24
		64QAM	Full	0	5.64	30.77	33.78	36.79	101.24
		256QAM	Full	0	5.64	30.84	33.85	36.86	101.24
	2660+2680	QPSK	Full	0	5.64	30.91	33.92	36.93	101.24
		16QAM	Full	0	5.64	30.80	33.81	36.82	101.24
		64QAM	Full	0	5.64	30.78	33.79	36.80	101.24
		256QAM	Full	0	5.64	30.80	33.81	36.82	101.24
80+80M	2536+2616	QPSK	Full	0	5.64	30.93	33.94	36.95	107.26
		16QAM	Full	0	5.64	30.88	33.89	36.90	107.26
		64QAM	Full	0	5.64	30.84	33.85	36.86	107.26
		256QAM	Full	0	5.64	30.76	33.77	36.78	107.26
	2553+2633	QPSK	Full	0	5.64	30.95	33.96	36.97	107.26
		16QAM	Full	0	5.64	30.80	33.81	36.82	107.26
		64QAM	Full	0	5.64	30.89	33.90	36.91	107.26
		256QAM	Full	0	5.64	30.76	33.77	36.78	107.26
	2570+2650	QPSK	Full	0	5.64	30.94	33.95	36.96	107.26
		16QAM	Full	0	5.64	30.88	33.89	36.90	107.26
		64QAM	Full	0	5.64	30.78	33.79	36.80	107.26
		256QAM	Full	0	5.64	30.87	33.88	36.89	107.26



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3 Carriers _ SCS 30kHz							
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			
60+60+60M	2526+2586+2646	QPSK	Full	0	25.26	28.27	31.28
		16QAM	Full	0	25.07	28.08	31.09
		64QAM	Full	0	25.20	28.21	31.22
		256QAM	Full	0	25.13	28.14	31.15
	2533+2593+2653	QPSK	Full	0	25.30	28.31	31.32
		16QAM	Full	0	25.08	28.09	31.10
		64QAM	Full	0	25.20	28.21	31.22
		256QAM	Full	0	25.23	28.24	31.25
	2540+2600+2660	QPSK	Full	0	25.25	28.26	31.27
		16QAM	Full	0	25.20	28.21	31.22
		64QAM	Full	0	25.17	28.18	31.19
		256QAM	Full	0	25.12	28.13	31.14

3 Carriers _ SCS 30kHz									
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		Ant Gain (dBi)	SISO EIRP (dBm)	2*2 MIMO EIRP (dBm)	4*4 MIMO EIRP (dBm)	E.I.R.P Limit (dBm)
			Size	Off set					
60+60+60M	2526+2586+2646	QPSK	Full	0	5.64	30.90	33.91	36.92	107.77
		16QAM	Full	0	5.64	30.71	33.72	36.73	107.77
		64QAM	Full	0	5.64	30.84	33.85	36.86	107.77
		256QAM	Full	0	5.64	30.77	33.78	36.79	107.77
	2533+2593+2653	QPSK	Full	0	5.64	30.94	33.95	36.96	107.77
		16QAM	Full	0	5.64	30.72	33.73	36.74	107.77
		64QAM	Full	0	5.64	30.84	33.85	36.86	107.77
		256QAM	Full	0	5.64	30.87	33.88	36.89	107.77
	2540+2600+2660	QPSK	Full	0	5.64	30.89	33.90	36.91	107.77
		16QAM	Full	0	5.64	30.84	33.85	36.86	107.77
		64QAM	Full	0	5.64	30.81	33.82	36.83	107.77
		256QAM	Full	0	5.64	30.76	33.77	36.78	107.77



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4 Carriers _ SCS 30kHz							
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			
40+40+40+40M	2516+2556+2596+2636	QPSK	Full	0	25.31	28.32	31.33
		16QAM	Full	0	25.15	28.16	31.17
		64QAM	Full	0	25.18	28.19	31.20
		256QAM	Full	0	25.17	28.18	31.19
	2533+2573+2613+2653	QPSK	Full	0	25.28	28.29	31.30
		16QAM	Full	0	25.18	28.19	31.20
		64QAM	Full	0	25.22	28.23	31.24
		256QAM	Full	0	25.12	28.13	31.14
	2550+2590+2630+2670	QPSK	Full	0	25.27	28.28	31.29
		16QAM	Full	0	25.20	28.21	31.22
		64QAM	Full	0	25.17	28.18	31.19
		256QAM	Full	0	25.19	28.20	31.21

4 Carriers _ SCS 30kHz									
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		Ant Gain (dBi)	SISO EIRP (dBm)	2*2 MIMO EIRP (dBm)	4*4 MIMO EIRP (dBm)	E.I.R.P Limit (dBm)
			Size	Off set					
40+40+40+40M	2516+2556+2596+2636	QPSK	Full	0	5.64	30.95	33.96	36.97	107.26
		16QAM	Full	0	5.64	30.79	33.80	36.81	107.26
		64QAM	Full	0	5.64	30.82	33.83	36.84	107.26
		256QAM	Full	0	5.64	30.81	33.82	36.83	107.26
	2533+2573+2613+2653	QPSK	Full	0	5.64	30.92	33.93	36.94	107.26
		16QAM	Full	0	5.64	30.82	33.83	36.84	107.26
		64QAM	Full	0	5.64	30.86	33.87	36.88	107.26
		256QAM	Full	0	5.64	30.76	33.77	36.78	107.26
	2550+2590+2630+2670	QPSK	Full	0	5.64	30.91	33.92	36.93	107.26
		16QAM	Full	0	5.64	30.84	33.85	36.86	107.26
		64QAM	Full	0	5.64	30.81	33.82	36.83	107.26
		256QAM	Full	0	5.64	30.83	33.84	36.85	107.26



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5 Carriers _ SCS 30kHz							
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			
20+20+20+20+20M	2506+2526+2546+2566+2586	QPSK	Full	0	25.32	28.33	31.34
		16QAM	Full	0	25.11	28.12	31.13
		64QAM	Full	0	25.24	28.25	31.26
		256QAM	Full	0	25.18	28.19	31.20
	2553+2573+2593+2613+2633	QPSK	Full	0	25.23	28.24	31.25
		16QAM	Full	0	25.19	28.20	31.21
		64QAM	Full	0	25.17	28.18	31.19
		256QAM	Full	0	25.14	28.15	31.16
	2600+2620+2640+2660+2680	QPSK	Full	0	25.28	28.29	31.30
		16QAM	Full	0	25.21	28.22	31.23
		64QAM	Full	0	25.15	28.16	31.17
		256QAM	Full	0	25.12	28.13	31.14

5 Carriers _ SCS 30kHz									
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		Ant	SISO EIRP (dBm)	2*2 MIMO EIRP (dBm)	4*4 MIMO EIRP (dBm)	E.I.R.P Limit (dBm)
			Size	Off set	Gain (dBi)				
20+20+20+20+20M	2506+2526+2546+2566+2586	QPSK	Full	0	5.64	30.96	33.97	36.98	105.22
		16QAM	Full	0	5.64	30.75	33.76	36.77	105.22
		64QAM	Full	0	5.64	30.88	33.89	36.90	105.22
		256QAM	Full	0	5.64	30.82	33.83	36.84	105.22
	2553+2573+2593+2613+2633	QPSK	Full	0	5.64	30.87	33.88	36.89	105.22
		16QAM	Full	0	5.64	30.83	33.84	36.85	105.22
		64QAM	Full	0	5.64	30.81	33.82	36.83	105.22
		256QAM	Full	0	5.64	30.78	33.79	36.80	105.22
	2600+2620+2640+2660+2680	QPSK	Full	0	5.64	30.92	33.93	36.94	105.22
		16QAM	Full	0	5.64	30.85	33.86	36.87	105.22
		64QAM	Full	0	5.64	30.79	33.80	36.81	105.22
		256QAM	Full	0	5.64	30.76	33.77	36.78	105.22



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6 Carriers _ SCS 30kHz							
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			
20+20+20+20+20+20M	2506+2526+2546 +2566+2586+2606	QPSK	Full	0	25.24	28.25	31.26
		16QAM	Full	0	25.08	28.09	31.10
		64QAM	Full	0	25.19	28.20	31.21
		256QAM	Full	0	25.14	28.15	31.16
	2543+2563+2583 +2603+2623+2643	QPSK	Full	0	25.28	28.29	31.30
		16QAM	Full	0	25.12	28.13	31.14
		64QAM	Full	0	25.23	28.24	31.25
		256QAM	Full	0	25.21	28.22	31.23
	2580+2600+2620 +2640+2660+2680	QPSK	Full	0	25.22	28.23	31.24
		16QAM	Full	0	25.10	28.11	31.12
		64QAM	Full	0	25.18	28.19	31.20
		256QAM	Full	0	25.14	28.15	31.16

6 Carriers _ SCS 30kHz									
BW Arrange	Frequency (MHz)	Modulation	RB Allocation		Ant Gain (dBi)	SISO EIRP (dBm)	2*2 MIMO EIRP (dBm)	4*4 MIMO EIRP (dBm)	E.I.R.P Limit (dBm)
			Size	Off set					
20+20+20+20+20+20M	2506+2526+2546 +2566+2586+2606	QPSK	Full	0	5.64	30.88	33.89	36.90	106.01
		16QAM	Full	0	5.64	30.72	33.73	36.74	106.01
		64QAM	Full	0	5.64	30.83	33.84	36.85	106.01
		256QAM	Full	0	5.64	30.78	33.79	36.80	106.01
	2543+2563+2583 +2603+2623+2643	QPSK	Full	0	5.64	30.92	33.93	36.94	106.01
		16QAM	Full	0	5.64	30.76	33.77	36.78	106.01
		64QAM	Full	0	5.64	30.87	33.88	36.89	106.01
		256QAM	Full	0	5.64	30.85	33.86	36.87	106.01
	2580+2600+2620 +2640+2660+2680	QPSK	Full	0	5.64	30.86	33.87	36.88	106.01
		16QAM	Full	0	5.64	30.74	33.75	36.76	106.01
		64QAM	Full	0	5.64	30.82	33.83	36.84	106.01
		256QAM	Full	0	5.64	30.78	33.79	36.80	106.01

- 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.
3. Remark: EIRP limit of which is: 33 dBW + 10 log(X/Y) dBW



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### 6.2 Peak-Average Ratio

Test Requirement: §27.50

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤13dB

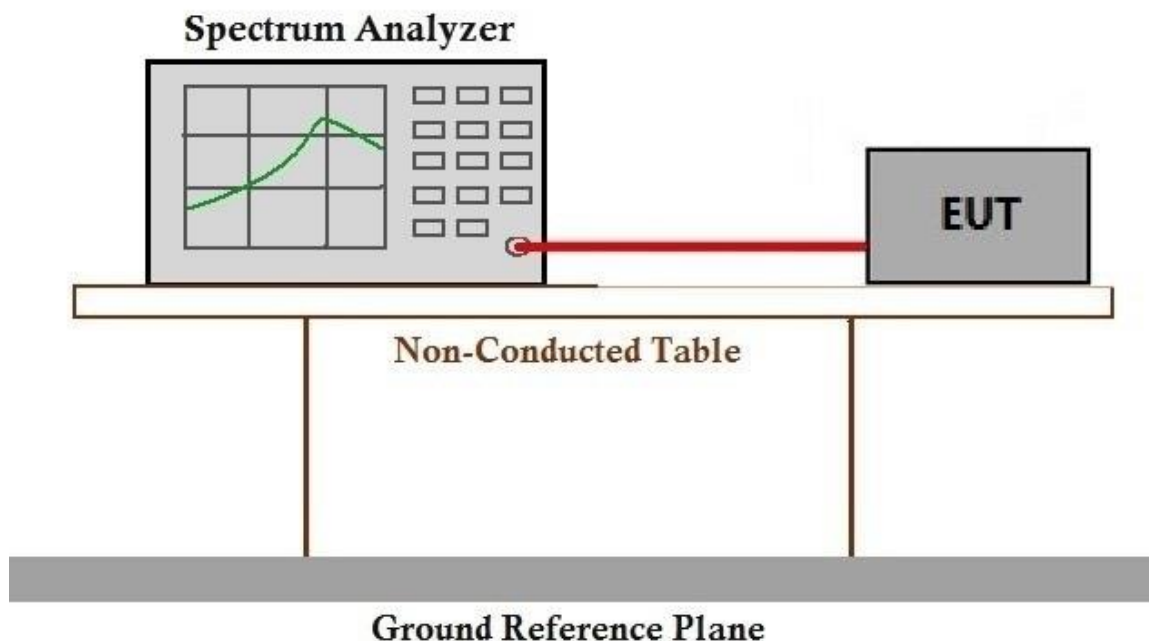
#### 6.2.1 E.U.T. Operation

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 D for Peak-Average Ratio-FCC WWAN BS



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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

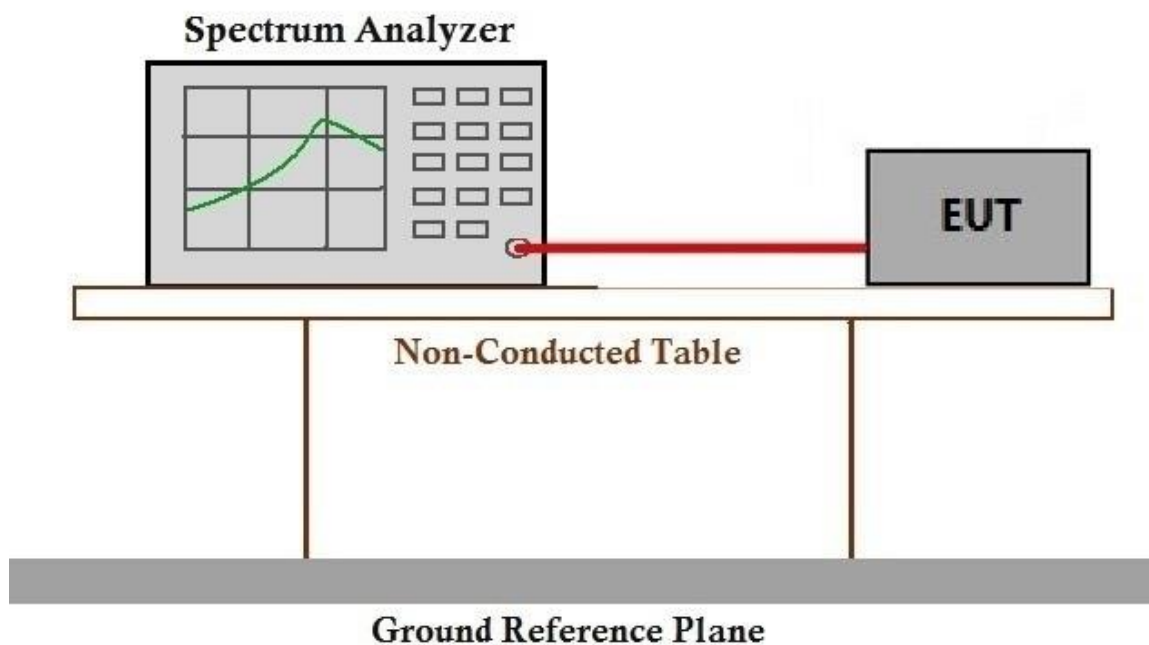
#### 6.3.1 E.U.T. Operation

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



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### 6.4 Band Edge Compliance

Test Requirement: §2.1051, §27.53  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  $\leq -13\text{dBm/MHz}$

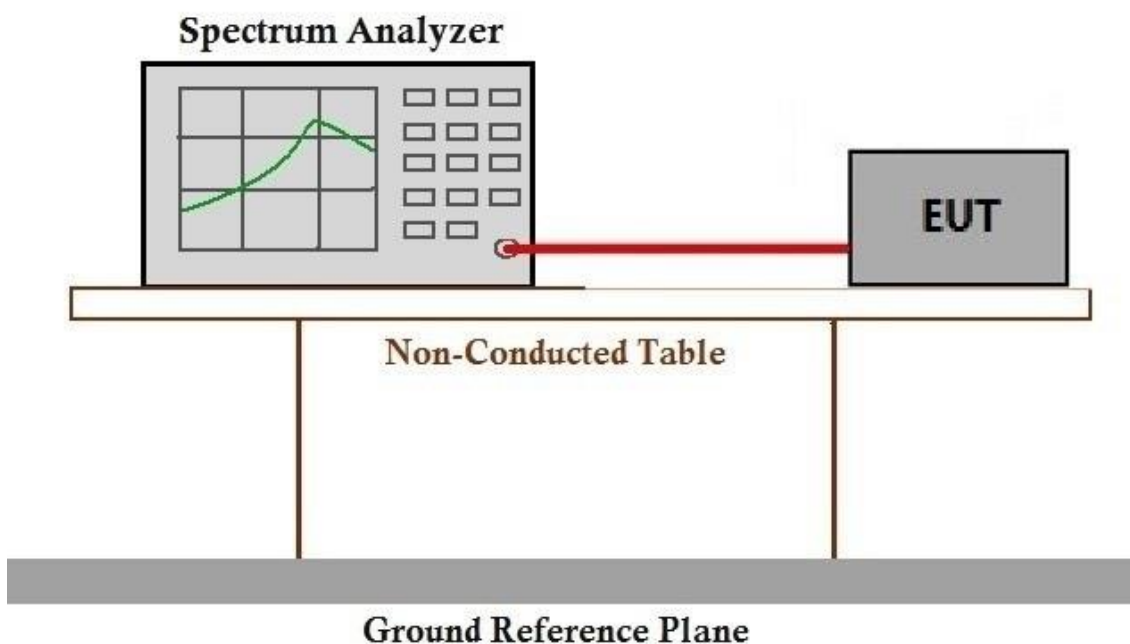
#### 6.4.1 E.U.T. Operation

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



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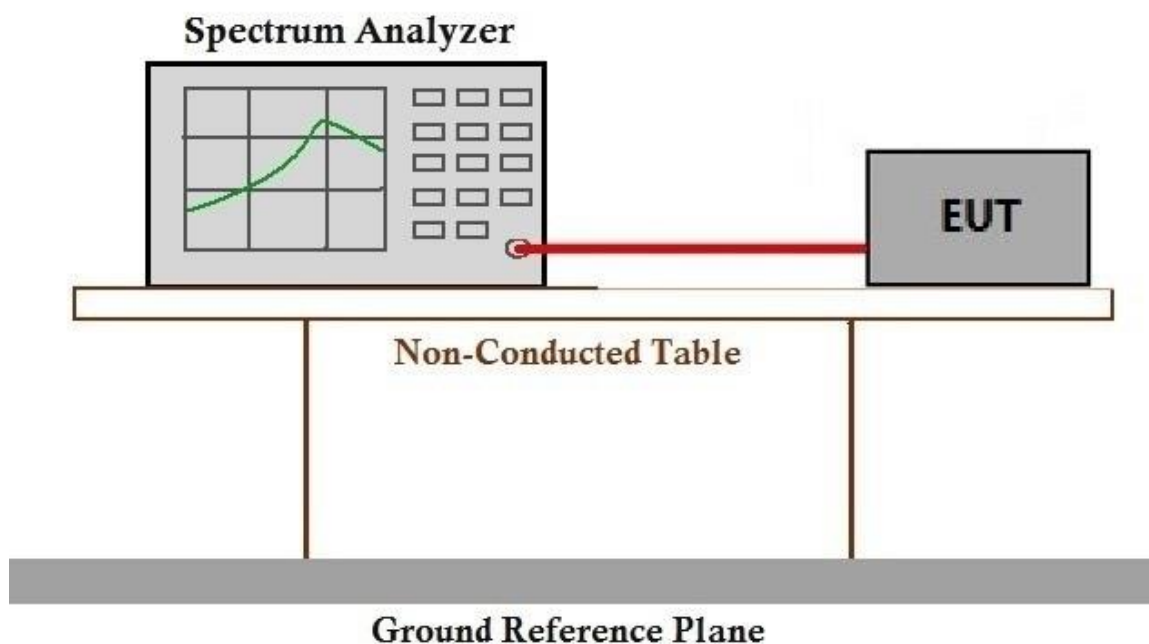
### 6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §27.53  
 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



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### 6.6 Radiated spurious radiation

Test Requirement: §2.1053

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit:  $\leq -13\text{dBm/MHz}$

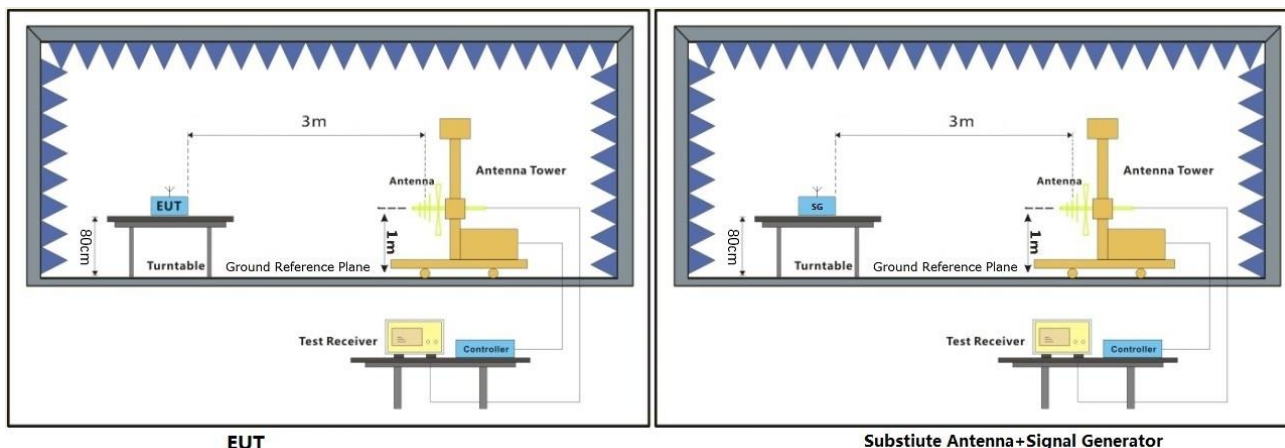
#### 6.6.1 E.U.T. Operation

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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Report No.: KSCR220800146401

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5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 20MHz _ channel 2506MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
330.2	111	Horizontal	-71.1	-13.0	-58.1	Pass
583.0	349	Horizontal	-72.3	-13.0	-59.3	Pass
950.1	240	Horizontal	-73.0	-13.0	-60.0	Pass
7308.2	129	Horizontal	-51.9	-13.0	-38.9	Pass
10907.0	65	Horizontal	-59.1	-13.0	-46.1	Pass
14413.9	358	Horizontal	-54.3	-13.0	-41.3	Pass
153.2	48	Vertical	-72.4	-13.0	-59.4	Pass
639.0	75	Vertical	-75.7	-13.0	-62.7	Pass
920.4	322	Vertical	-70.0	-13.0	-57.0	Pass
7406.7	273	Vertical	-54.9	-13.0	-41.9	Pass
10712.9	79	Vertical	-56.2	-13.0	-43.2	Pass
14460.8	34	Vertical	-55.9	-13.0	-42.9	Pass

5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 20MHz _ channel 2593MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
354.3	264	Horizontal	-71.4	-13.0	-58.4	Pass
553.4	94	Horizontal	-72.2	-13.0	-59.2	Pass
888.8	12	Horizontal	-72.9	-13.0	-59.9	Pass
7258.2	121	Horizontal	-52.1	-13.0	-39.1	Pass
10921.4	144	Horizontal	-59.4	-13.0	-46.4	Pass
14349.8	85	Horizontal	-53.6	-13.0	-40.6	Pass
53.3	248	Vertical	-72.2	-13.0	-59.2	Pass
742.7	28	Vertical	-75.9	-13.0	-62.9	Pass
847.2	24	Vertical	-70.0	-13.0	-57.0	Pass
7498.0	44	Vertical	-55.5	-13.0	-42.5	Pass
10636.3	217	Vertical	-56.7	-13.0	-43.7	Pass
14536.1	195	Vertical	-55.9	-13.0	-42.9	Pass



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Report No.: KSCR220800146401

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5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 20MHz _ channel 2680MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
227.8	6	Horizontal	-70.9	-13.0	-57.9	Pass
675.9	155	Horizontal	-72.5	-13.0	-59.5	Pass
936.2	166	Horizontal	-72.9	-13.0	-59.9	Pass
7273.5	288	Horizontal	-51.7	-13.0	-38.7	Pass
10754.7	226	Horizontal	-59.1	-13.0	-46.1	Pass
14403.7	285	Horizontal	-53.6	-13.0	-40.6	Pass
210.4	177	Vertical	-73.0	-13.0	-60.0	Pass
621.4	10	Vertical	-76.5	-13.0	-63.5	Pass
1047.7	125	Vertical	-69.9	-13.0	-56.9	Pass
7386.7	287	Vertical	-55.0	-13.0	-42.0	Pass
10628.9	94	Vertical	-56.0	-13.0	-43.0	Pass
14537.1	318	Vertical	-56.4	-13.0	-43.4	Pass

5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 40MHz _ channel 2516MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
263.0	0	Horizontal	-70.9	-13.0	-57.9	Pass
652.7	252	Horizontal	-72.8	-13.0	-59.8	Pass
824.6	301	Horizontal	-72.7	-13.0	-59.7	Pass
7224.8	213	Horizontal	-51.5	-13.0	-38.5	Pass
10932.4	94	Horizontal	-58.8	-13.0	-45.8	Pass
14464.8	197	Horizontal	-54.0	-13.0	-41.0	Pass
79.1	250	Vertical	-72.9	-13.0	-59.9	Pass
769.6	161	Vertical	-75.7	-13.0	-62.7	Pass
950.3	60	Vertical	-69.9	-13.0	-56.9	Pass
7521.7	158	Vertical	-55.3	-13.0	-42.3	Pass
10731.0	184	Vertical	-56.8	-13.0	-43.8	Pass
14415.5	356	Vertical	-56.2	-13.0	-43.2	Pass



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Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
210.7	199	Horizontal	-71.1	-13.0	-58.1	Pass
682.4	64	Horizontal	-72.1	-13.0	-59.1	Pass
874.1	234	Horizontal	-73.1	-13.0	-60.1	Pass
7211.0	183	Horizontal	-52.0	-13.0	-39.0	Pass
10898.5	194	Horizontal	-59.6	-13.0	-46.6	Pass
14500.5	59	Horizontal	-53.7	-13.0	-40.7	Pass
171.0	101	Vertical	-72.5	-13.0	-59.5	Pass
791.2	201	Vertical	-75.6	-13.0	-62.6	Pass
911.5	68	Vertical	-70.6	-13.0	-57.6	Pass
7452.9	12	Vertical	-55.2	-13.0	-42.2	Pass
10633.8	174	Vertical	-56.4	-13.0	-43.4	Pass
14408.9	129	Vertical	-56.4	-13.0	-43.4	Pass

5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 40MHz _ channel 2670MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
373.5	144	Horizontal	-71.5	-13.0	-58.5	Pass
672.8	145	Horizontal	-72.4	-13.0	-59.4	Pass
863.7	205	Horizontal	-72.8	-13.0	-59.8	Pass
7210.7	56	Horizontal	-51.6	-13.0	-38.6	Pass
10922.4	24	Horizontal	-58.9	-13.0	-45.9	Pass
14347.0	282	Horizontal	-54.1	-13.0	-41.1	Pass
127.1	274	Vertical	-72.2	-13.0	-59.2	Pass
728.9	223	Vertical	-76.1	-13.0	-63.1	Pass
850.8	111	Vertical	-70.7	-13.0	-57.7	Pass
7498.7	10	Vertical	-54.9	-13.0	-41.9	Pass
10730.2	142	Vertical	-56.7	-13.0	-43.7	Pass
14453.0	358	Vertical	-55.9	-13.0	-42.9	Pass



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Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
213.1	217	Horizontal	-71.2	-13.0	-58.2	Pass
645.7	9	Horizontal	-72.1	-13.0	-59.1	Pass
914.8	274	Horizontal	-72.9	-13.0	-59.9	Pass
7351.6	143	Horizontal	-51.4	-13.0	-38.4	Pass
10908.2	40	Horizontal	-59.0	-13.0	-46.0	Pass
14334.4	79	Horizontal	-53.6	-13.0	-40.6	Pass
142.7	51	Vertical	-72.6	-13.0	-59.6	Pass
616.9	231	Vertical	-76.2	-13.0	-63.2	Pass
644.4	199	Vertical	-70.7	-13.0	-57.7	Pass
7413.4	263	Vertical	-55.1	-13.0	-42.1	Pass
10780.3	195	Vertical	-56.0	-13.0	-43.0	Pass
14537.4	87	Vertical	-56.6	-13.0	-43.6	Pass

5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 60MHz _ channel 2593MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
232.6	318	Horizontal	-71.9	-13.0	-58.9	Pass
597.4	80	Horizontal	-72.0	-13.0	-59.0	Pass
936.7	284	Horizontal	-73.1	-13.0	-60.1	Pass
7254.8	261	Horizontal	-51.7	-13.0	-38.7	Pass
10792.2	213	Horizontal	-58.8	-13.0	-45.8	Pass
14414.2	198	Horizontal	-54.1	-13.0	-41.1	Pass
118.6	168	Vertical	-72.9	-13.0	-59.9	Pass
627.1	91	Vertical	-75.9	-13.0	-62.9	Pass
763.8	124	Vertical	-70.7	-13.0	-57.7	Pass
7443.9	172	Vertical	-54.7	-13.0	-41.7	Pass
10594.6	360	Vertical	-56.7	-13.0	-43.7	Pass
14552.5	330	Vertical	-56.2	-13.0	-43.2	Pass



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5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 60MHz _ channel 2660MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
322.0	11	Horizontal	-71.7	-13.0	-58.7	Pass
674.4	100	Horizontal	-72.0	-13.0	-59.0	Pass
997.2	160	Horizontal	-73.2	-13.0	-60.2	Pass
7274.8	290	Horizontal	-51.7	-13.0	-38.7	Pass
10821.4	349	Horizontal	-59.4	-13.0	-46.4	Pass
14396.1	161	Horizontal	-54.4	-13.0	-41.4	Pass
79.1	336	Vertical	-72.6	-13.0	-59.6	Pass
663.0	42	Vertical	-75.9	-13.0	-62.9	Pass
715.2	161	Vertical	-70.0	-13.0	-57.0	Pass
7470.7	310	Vertical	-55.1	-13.0	-42.1	Pass
10644.1	79	Vertical	-56.3	-13.0	-43.3	Pass
14395.9	64	Vertical	-56.5	-13.0	-43.5	Pass

5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 80MHz _ channel 2536MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
268.3	153	Horizontal	-71.6	-13.0	-58.6	Pass
655.0	23	Horizontal	-72.0	-13.0	-59.0	Pass
1008.4	312	Horizontal	-72.6	-13.0	-59.6	Pass
7228.9	50	Horizontal	-51.3	-13.0	-38.3	Pass
10934.8	107	Horizontal	-59.5	-13.0	-46.5	Pass
14462.5	75	Horizontal	-54.3	-13.0	-41.3	Pass
174.8	314	Vertical	-72.1	-13.0	-59.1	Pass
712.1	206	Vertical	-75.7	-13.0	-62.7	Pass
802.0	309	Vertical	-70.2	-13.0	-57.2	Pass
7384.1	238	Vertical	-55.6	-13.0	-42.6	Pass
10772.6	128	Vertical	-56.3	-13.0	-43.3	Pass
14435.1	110	Vertical	-56.1	-13.0	-43.1	Pass



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5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 80MHz _ channel 2593MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
206.1	96	Horizontal	-71.7	-13.0	-58.7	Pass
672.7	338	Horizontal	-72.7	-13.0	-59.7	Pass
980.9	220	Horizontal	-73.2	-13.0	-60.2	Pass
7353.4	188	Horizontal	-51.4	-13.0	-38.4	Pass
10797.9	4	Horizontal	-59.6	-13.0	-46.6	Pass
14464.5	236	Horizontal	-53.6	-13.0	-40.6	Pass
93.0	132	Vertical	-72.2	-13.0	-59.2	Pass
620.3	147	Vertical	-75.6	-13.0	-62.6	Pass
687.8	189	Vertical	-69.9	-13.0	-56.9	Pass
7525.5	294	Vertical	-55.4	-13.0	-42.4	Pass
10673.9	58	Vertical	-56.2	-13.0	-43.2	Pass
14429.5	113	Vertical	-55.8	-13.0	-42.8	Pass

5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 80MHz _ channel 2650MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
273.8	5	Horizontal	-71.4	-13.0	-58.4	Pass
698.1	153	Horizontal	-72.7	-13.0	-59.7	Pass
950.6	31	Horizontal	-72.5	-13.0	-59.5	Pass
7281.5	163	Horizontal	-51.7	-13.0	-38.7	Pass
10850.6	7	Horizontal	-59.0	-13.0	-46.0	Pass
14500.1	100	Horizontal	-54.0	-13.0	-41.0	Pass
138.0	125	Vertical	-72.6	-13.0	-59.6	Pass
778.7	325	Vertical	-75.6	-13.0	-62.6	Pass
645.5	3	Vertical	-70.5	-13.0	-57.5	Pass
7517.1	256	Vertical	-55.7	-13.0	-42.7	Pass
10668.3	154	Vertical	-56.6	-13.0	-43.6	Pass
14392.7	65	Vertical	-56.4	-13.0	-43.4	Pass



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5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 100MHz _ channel 2546MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
233.2	358	Horizontal	-71.3	-13.0	-58.3	Pass
593.8	24	Horizontal	-72.4	-13.0	-59.4	Pass
989.5	290	Horizontal	-73.2	-13.0	-60.2	Pass
7262.2	161	Horizontal	-51.8	-13.0	-38.8	Pass
10797.8	348	Horizontal	-58.8	-13.0	-45.8	Pass
14339.8	42	Horizontal	-54.2	-13.0	-41.2	Pass
192.7	22	Vertical	-72.8	-13.0	-59.8	Pass
666.4	17	Vertical	-76.3	-13.0	-63.3	Pass
808.1	292	Vertical	-70.3	-13.0	-57.3	Pass
7489.5	166	Vertical	-55.3	-13.0	-42.3	Pass
10667.1	159	Vertical	-56.2	-13.0	-43.2	Pass
14441.4	181	Vertical	-55.9	-13.0	-42.9	Pass

5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 100MHz _ channel 2593MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
242.4	317	Horizontal	-71.8	-13.0	-58.8	Pass
634.6	340	Horizontal	-71.9	-13.0	-58.9	Pass
921.0	256	Horizontal	-72.7	-13.0	-59.7	Pass
7206.6	73	Horizontal	-52.1	-13.0	-39.1	Pass
10834.6	188	Horizontal	-59.3	-13.0	-46.3	Pass
14530.2	174	Horizontal	-53.6	-13.0	-40.6	Pass
68.4	169	Vertical	-72.3	-13.0	-59.3	Pass
702.6	231	Vertical	-75.8	-13.0	-62.8	Pass
821.0	115	Vertical	-70.5	-13.0	-57.5	Pass
7521.6	21	Vertical	-55.1	-13.0	-42.1	Pass
10633.1	205	Vertical	-56.4	-13.0	-43.4	Pass
14451.9	2	Vertical	-55.7	-13.0	-42.7	Pass



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5G NR Carrier 1CC, SCS 30KHz, Continuous CA, Bandwidth: 100MHz _ channel 2640MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
222.7	324	Horizontal	-71.3	-13.0	-58.3	Pass
612.5	230	Horizontal	-71.8	-13.0	-58.8	Pass
853.6	20	Horizontal	-72.5	-13.0	-59.5	Pass
7220.5	287	Horizontal	-51.9	-13.0	-38.9	Pass
10936.9	43	Horizontal	-59.4	-13.0	-46.4	Pass
14347.6	105	Horizontal	-54.2	-13.0	-41.2	Pass
96.1	244	Vertical	-72.4	-13.0	-59.4	Pass
629.4	277	Vertical	-76.1	-13.0	-63.1	Pass
727.9	321	Vertical	-70.7	-13.0	-57.7	Pass
7448.6	154	Vertical	-55.4	-13.0	-42.4	Pass
10601.5	344	Vertical	-56.2	-13.0	-43.2	Pass
14497.9	249	Vertical	-56.1	-13.0	-43.1	Pass

5G NR Carrier 2CC, SCS 30KHz, Continuous CA, Bandwidth: 20+20MHz _ channel 2506+2526MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
281.4	186	Horizontal	-71.9	-13.0	-58.9	Pass
613.3	106	Horizontal	-72.1	-13.0	-59.1	Pass
885.8	14	Horizontal	-73.0	-13.0	-60.0	Pass
7374.4	182	Horizontal	-52.1	-13.0	-39.1	Pass
10862.9	310	Horizontal	-58.9	-13.0	-45.9	Pass
14525.7	31	Horizontal	-53.9	-13.0	-40.9	Pass
62.4	290	Vertical	-72.9	-13.0	-59.9	Pass
716.2	161	Vertical	-76.2	-13.0	-63.2	Pass
794.9	169	Vertical	-70.8	-13.0	-57.8	Pass
7379.7	164	Vertical	-55.6	-13.0	-42.6	Pass
10707.6	310	Vertical	-56.1	-13.0	-43.1	Pass
14468.3	32	Vertical	-56.2	-13.0	-43.2	Pass



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5G NR Carrier 2CC, SCS 30KHz, Continuous CA, Bandwidth: 20+20MHz _ channel 2583+2603MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
197.7	257	Horizontal	-70.9	-13.0	-57.9	Pass
515.1	53	Horizontal	-71.9	-13.0	-58.9	Pass
933.8	202	Horizontal	-73.3	-13.0	-60.3	Pass
7393.2	164	Horizontal	-52.0	-13.0	-39.0	Pass
10820.1	170	Horizontal	-59.4	-13.0	-46.4	Pass
14527.9	216	Horizontal	-54.2	-13.0	-41.2	Pass
147.2	187	Vertical	-73.0	-13.0	-60.0	Pass
690.6	306	Vertical	-75.8	-13.0	-62.8	Pass
719.2	308	Vertical	-70.6	-13.0	-57.6	Pass
7455.7	173	Vertical	-55.7	-13.0	-42.7	Pass
10675.1	329	Vertical	-56.2	-13.0	-43.2	Pass
14545.0	119	Vertical	-56.1	-13.0	-43.1	Pass

5G NR Carrier 2CC, SCS 30KHz, Continuous CA, Bandwidth: 20+20MHz _ channel 2660+2680MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
258.5	307	Horizontal	-71.2	-13.0	-58.2	Pass
655.1	24	Horizontal	-72.8	-13.0	-59.8	Pass
885.5	312	Horizontal	-72.9	-13.0	-59.9	Pass
7232.4	181	Horizontal	-51.9	-13.0	-38.9	Pass
10891.9	145	Horizontal	-59.2	-13.0	-46.2	Pass
14431.8	52	Horizontal	-54.5	-13.0	-41.5	Pass
192.0	230	Vertical	-72.6	-13.0	-59.6	Pass
707.5	104	Vertical	-76.0	-13.0	-63.0	Pass
782.9	197	Vertical	-70.0	-13.0	-57.0	Pass
7492.0	135	Vertical	-55.5	-13.0	-42.5	Pass
10593.6	23	Vertical	-56.8	-13.0	-43.8	Pass
14526.0	233	Vertical	-56.6	-13.0	-43.6	Pass



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5G NR Carrier 2CC, SCS 30KHz, Continuous CA, Bandwidth: 80+80MHz _ channel 2536+2616MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
357.8	152	Horizontal	-71.4	-13.0	-58.4	Pass
516.7	306	Horizontal	-72.4	-13.0	-59.4	Pass
935.9	253	Horizontal	-72.6	-13.0	-59.6	Pass
6265.7	289	Horizontal	-52.2	-13.0	-39.2	Pass
10849.8	138	Horizontal	-58.7	-13.0	-45.7	Pass
14344.1	59	Horizontal	-53.8	-13.0	-40.8	Pass
58.6	222	Vertical	-72.2	-13.0	-59.2	Pass
616.1	328	Vertical	-75.8	-13.0	-62.8	Pass
688.7	79	Vertical	-70.5	-13.0	-57.5	Pass
6466.1	93	Vertical	-55.6	-13.0	-42.6	Pass
10787.4	349	Vertical	-56.0	-13.0	-43.0	Pass
14525.6	52	Vertical	-56.5	-13.0	-43.5	Pass

5G NR Carrier 2CC, SCS 30KHz, Continuous CA, Bandwidth: 80+80MHz _ channel 2553+2633MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
275.7	98	Horizontal	-71.1	-13.0	-58.1	Pass
570.2	38	Horizontal	-71.8	-13.0	-58.8	Pass
946.6	92	Horizontal	-73.2	-13.0	-60.2	Pass
6285.8	245	Horizontal	-52.3	-13.0	-39.3	Pass
10927.2	278	Horizontal	-58.7	-13.0	-45.7	Pass
14335.2	108	Horizontal	-54.3	-13.0	-41.3	Pass
241.1	13	Vertical	-72.5	-13.0	-59.5	Pass
691.9	194	Vertical	-75.5	-13.0	-62.5	Pass
798.7	39	Vertical	-70.7	-13.0	-57.7	Pass
6455.8	72	Vertical	-54.8	-13.0	-41.8	Pass
10701.6	59	Vertical	-55.9	-13.0	-42.9	Pass
14389.3	289	Vertical	-56.4	-13.0	-43.4	Pass



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5G NR Carrier 2CC, SCS 30KHz, Continuous CA, Bandwidth: 80+80MHz _ channel 2570+2650MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
290.6	29	Horizontal	-71.3	-13.0	-58.3	Pass
502.8	9	Horizontal	-72.6	-13.0	-59.6	Pass
839.7	246	Horizontal	-72.5	-13.0	-59.5	Pass
6286.2	201	Horizontal	-52.1	-13.0	-39.1	Pass
10778.3	300	Horizontal	-59.7	-13.0	-46.7	Pass
14344.5	244	Horizontal	-53.9	-13.0	-40.9	Pass
222.0	240	Vertical	-72.8	-13.0	-59.8	Pass
765.2	253	Vertical	-75.5	-13.0	-62.5	Pass
748.9	133	Vertical	-70.3	-13.0	-57.3	Pass
6431.5	258	Vertical	-55.4	-13.0	-42.4	Pass
10644.2	285	Vertical	-56.3	-13.0	-43.3	Pass
14556.8	333	Vertical	-56.0	-13.0	-43.0	Pass

5G NR Carrier 3CC, SCS 30KHz, Continuous CA, Bandwidth: 60+60+60MHz _ channel 2526+2586+2646MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
252.2	260	Horizontal	-71.5	-13.0	-58.5	Pass
503.5	182	Horizontal	-71.9	-13.0	-58.9	Pass
907.8	234	Horizontal	-72.9	-13.0	-59.9	Pass
6353.8	197	Horizontal	-51.3	-13.0	-38.3	Pass
10815.7	282	Horizontal	-59.4	-13.0	-46.4	Pass
14521.5	33	Horizontal	-53.9	-13.0	-40.9	Pass
160.9	28	Vertical	-72.5	-13.0	-59.5	Pass
691.2	179	Vertical	-75.8	-13.0	-62.8	Pass
813.9	76	Vertical	-70.7	-13.0	-57.7	Pass
6350.8	128	Vertical	-55.0	-13.0	-42.0	Pass
10715.7	78	Vertical	-56.7	-13.0	-43.7	Pass
14471.6	254	Vertical	-56.6	-13.0	-43.6	Pass



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5G NR Carrier 3CC, SCS 30KHz, Continuous CA, Bandwidth: 60+60+60MHz _ channel 2533+2593+2653MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
338.9	70	Horizontal	-71.4	-13.0	-58.4	Pass
551.5	247	Horizontal	-72.6	-13.0	-59.6	Pass
867.6	315	Horizontal	-72.8	-13.0	-59.8	Pass
6222.8	138	Horizontal	-52.0	-13.0	-39.0	Pass
10850.6	229	Horizontal	-59.1	-13.0	-46.1	Pass
14360.6	350	Horizontal	-53.6	-13.0	-40.6	Pass
218.9	121	Vertical	-72.4	-13.0	-59.4	Pass
699.8	72	Vertical	-75.9	-13.0	-62.9	Pass
639.5	74	Vertical	-69.9	-13.0	-56.9	Pass
6358.7	301	Vertical	-54.8	-13.0	-41.8	Pass
10623.5	267	Vertical	-56.4	-13.0	-43.4	Pass
14464.8	298	Vertical	-55.9	-13.0	-42.9	Pass

5G NR Carrier 3CC, SCS 30KHz, Continuous CA, Bandwidth: 60+60+60MHz _ channel 2540+2600+2660MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
333.5	3	Horizontal	-71.1	-13.0	-58.1	Pass
522.5	229	Horizontal	-72.0	-13.0	-59.0	Pass
868.2	178	Horizontal	-73.2	-13.0	-60.2	Pass
6356.4	167	Horizontal	-51.7	-13.0	-38.7	Pass
10890.0	15	Horizontal	-59.7	-13.0	-46.7	Pass
14349.4	47	Horizontal	-54.3	-13.0	-41.3	Pass
232.8	62	Vertical	-72.4	-13.0	-59.4	Pass
638.2	215	Vertical	-76.2	-13.0	-63.2	Pass
721.5	106	Vertical	-70.2	-13.0	-57.2	Pass
6472.2	152	Vertical	-55.5	-13.0	-42.5	Pass
10619.4	239	Vertical	-55.9	-13.0	-42.9	Pass
14474.7	264	Vertical	-56.3	-13.0	-43.3	Pass



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5G NR Carrier 4CC, SCS 30KHz, Continuous CA, Bandwidth: 40+40+40+40MHz _ channel 2516+2556+2596+2636MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
368.4	21	Horizontal	-71.6	-13.0	-58.6	Pass
589.1	70	Horizontal	-72.1	-13.0	-59.1	Pass
916.2	58	Horizontal	-72.8	-13.0	-59.8	Pass
6274.5	61	Horizontal	-51.9	-13.0	-38.9	Pass
10899.2	310	Horizontal	-59.2	-13.0	-46.2	Pass
14400.6	327	Horizontal	-53.8	-13.0	-40.8	Pass
174.3	266	Vertical	-72.9	-13.0	-59.9	Pass
607.4	112	Vertical	-76.1	-13.0	-63.1	Pass
777.1	352	Vertical	-70.7	-13.0	-57.7	Pass
6383.7	230	Vertical	-55.7	-13.0	-42.7	Pass
10608.0	47	Vertical	-56.0	-13.0	-43.0	Pass
14446.6	251	Vertical	-55.9	-13.0	-42.9	Pass

5G NR Carrier 4CC, SCS 30KHz, Continuous CA, Bandwidth: 40+40+40+40MHz _ channel 2533+2573+2613+2653MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
298.1	350	Horizontal	-71.6	-13.0	-58.6	Pass
696.4	104	Horizontal	-72.1	-13.0	-59.1	Pass
982.8	191	Horizontal	-73.2	-13.0	-60.2	Pass
6293.0	341	Horizontal	-51.6	-13.0	-38.6	Pass
10785.4	242	Horizontal	-59.2	-13.0	-46.2	Pass
14520.1	359	Horizontal	-54.3	-13.0	-41.3	Pass
144.5	350	Vertical	-72.3	-13.0	-59.3	Pass
758.2	98	Vertical	-76.0	-13.0	-63.0	Pass
646.9	288	Vertical	-70.3	-13.0	-57.3	Pass
6434.0	149	Vertical	-55.5	-13.0	-42.5	Pass
10703.8	56	Vertical	-55.8	-13.0	-42.8	Pass
14463.3	247	Vertical	-56.2	-13.0	-43.2	Pass



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5G NR Carrier 4CC, SCS 30KHz, Continuous CA, Bandwidth: 40+40+40+40MHz _ channel 2550+2590+2630+2670MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
198.9	1	Horizontal	-70.9	-13.0	-57.9	Pass
501.8	119	Horizontal	-72.1	-13.0	-59.1	Pass
1011.4	181	Horizontal	-72.9	-13.0	-59.9	Pass
6353.0	355	Horizontal	-51.3	-13.0	-38.3	Pass
10781.5	134	Horizontal	-59.2	-13.0	-46.2	Pass
14423.4	334	Horizontal	-54.0	-13.0	-41.0	Pass
174.4	16	Vertical	-72.5	-13.0	-59.5	Pass
612.7	208	Vertical	-76.2	-13.0	-63.2	Pass
698.2	27	Vertical	-70.4	-13.0	-57.4	Pass
6433.5	334	Vertical	-55.2	-13.0	-42.2	Pass
10631.8	231	Vertical	-56.8	-13.0	-43.8	Pass
14410.3	101	Vertical	-56.5	-13.0	-43.5	Pass

5G NR Carrier 5CC, SCS 30KHz, Continuous CA, Bandwidth: 20+20+20+20+20MHz _ channel 2506+2526+2546+2566+2586MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
181.7	167	Horizontal	-71.0	-13.0	-58.0	Pass
693.4	324	Horizontal	-72.3	-13.0	-59.3	Pass
842.0	149	Horizontal	-72.4	-13.0	-59.4	Pass
6357.2	44	Horizontal	-51.4	-13.0	-38.4	Pass
10793.0	82	Horizontal	-59.3	-13.0	-46.3	Pass
14434.9	284	Horizontal	-54.0	-13.0	-41.0	Pass
67.3	232	Vertical	-72.4	-13.0	-59.4	Pass
657.6	166	Vertical	-75.9	-13.0	-62.9	Pass
706.4	109	Vertical	-70.2	-13.0	-57.2	Pass
6476.1	207	Vertical	-54.8	-13.0	-41.8	Pass
10737.5	32	Vertical	-56.2	-13.0	-43.2	Pass
14410.9	50	Vertical	-56.6	-13.0	-43.6	Pass



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5G NR Carrier 5CC, SCS 30KHz, Continuous CA, Bandwidth: 20+20+20+20+20MHz _ channel 2553+2573+2593+2613+2633MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
239.3	138	Horizontal	-71.2	-13.0	-58.2	Pass
657.4	44	Horizontal	-71.9	-13.0	-58.9	Pass
959.6	258	Horizontal	-72.6	-13.0	-59.6	Pass
6385.6	132	Horizontal	-51.9	-13.0	-38.9	Pass
10895.4	80	Horizontal	-59.3	-13.0	-46.3	Pass
14369.1	216	Horizontal	-53.8	-13.0	-40.8	Pass
137.4	33	Vertical	-72.1	-13.0	-59.1	Pass
694.2	253	Vertical	-76.0	-13.0	-63.0	Pass
669.6	268	Vertical	-69.9	-13.0	-56.9	Pass
6358.5	2	Vertical	-55.5	-13.0	-42.5	Pass
10772.7	267	Vertical	-56.4	-13.0	-43.4	Pass
14497.2	84	Vertical	-56.3	-13.0	-43.3	Pass

5G NR Carrier 5CC, SCS 30KHz, Continuous CA, Bandwidth: 20+20+20+20+20MHz _ Channel 2600+2620+2640+2660+2680MHz						
Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit dB	Result
	(Deg)	Polaxis	(dBm)			
370.6	216	Horizontal	-71.2	-13.0	-58.2	Pass
517.0	282	Horizontal	-72.6	-13.0	-59.6	Pass
971.8	205	Horizontal	-72.7	-13.0	-59.7	Pass
6261.1	6	Horizontal	-52.0	-13.0	-39.0	Pass
10902.2	131	Horizontal	-58.8	-13.0	-45.8	Pass
14341.0	127	Horizontal	-53.6	-13.0	-40.6	Pass
125.0	84	Vertical	-72.7	-13.0	-59.7	Pass
693.6	218	Vertical	-75.6	-13.0	-62.6	Pass
768.1	89	Vertical	-70.7	-13.0	-57.7	Pass
6345.6	87	Vertical	-55.6	-13.0	-42.6	Pass
10755.2	337	Vertical	-55.9	-13.0	-42.9	Pass
14556.8	320	Vertical	-56.4	-13.0	-43.4	Pass



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Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
213.7	347	Horizontal	-71.4	-13.0	-58.4	Pass
584.2	234	Horizontal	-72.5	-13.0	-59.5	Pass
1016.6	17	Horizontal	-72.5	-13.0	-59.5	Pass
6260.7	13	Horizontal	-51.4	-13.0	-38.4	Pass
10789.2	144	Horizontal	-59.6	-13.0	-46.6	Pass
14404.8	75	Horizontal	-54.1	-13.0	-41.1	Pass
115.5	179	Vertical	-72.6	-13.0	-59.6	Pass
797.4	255	Vertical	-75.6	-13.0	-62.6	Pass
700.5	41	Vertical	-70.2	-13.0	-57.2	Pass
6535.0	125	Vertical	-55.5	-13.0	-42.5	Pass
10705.4	153	Vertical	-55.8	-13.0	-42.8	Pass
14376.5	160	Vertical	-55.8	-13.0	-42.8	Pass

5G NR Carrier 6CC, SCS 30KHz, Continuous CA, Bandwidth: 20+20+20+20+20+20MHz _ channel 2543+2563+2583+2603+2623+2643MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
225.2	62	Horizontal	-71.8	-13.0	-58.8	Pass
582.6	286	Horizontal	-72.8	-13.0	-59.8	Pass
941.4	65	Horizontal	-72.5	-13.0	-59.5	Pass
6366.0	107	Horizontal	-51.8	-13.0	-38.8	Pass
10795.5	85	Horizontal	-59.3	-13.0	-46.3	Pass
14525.3	178	Horizontal	-53.6	-13.0	-40.6	Pass
180.9	39	Vertical	-72.6	-13.0	-59.6	Pass
712.2	155	Vertical	-76.1	-13.0	-63.1	Pass
720.1	5	Vertical	-69.8	-13.0	-56.8	Pass
6410.5	68	Vertical	-55.6	-13.0	-42.6	Pass
10603.1	235	Vertical	-55.8	-13.0	-42.8	Pass
14375.4	107	Vertical	-55.8	-13.0	-42.8	Pass



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5G NR Carrier 6CC, SCS 30KHz, Continuous CA, Bandwidth: 20+20+20+20+20+20MHz _ channel 2580+2600+2620+2640+2660+2680MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
203.7	40	Horizontal	-71.5	-13.0	-58.5	Pass
542.0	200	Horizontal	-72.3	-13.0	-59.3	Pass
944.0	177	Horizontal	-73.0	-13.0	-60.0	Pass
6248.3	131	Horizontal	-51.8	-13.0	-38.8	Pass
10893.2	42	Horizontal	-58.9	-13.0	-45.9	Pass
14446.0	160	Horizontal	-54.4	-13.0	-41.4	Pass
155.2	267	Vertical	-72.1	-13.0	-59.1	Pass
624.3	189	Vertical	-75.6	-13.0	-62.6	Pass
819.2	331	Vertical	-70.1	-13.0	-57.1	Pass
6439.5	142	Vertical	-55.3	-13.0	-42.3	Pass
10778.4	215	Vertical	-56.8	-13.0	-43.8	Pass
14410.8	51	Vertical	-55.7	-13.0	-42.7	Pass

5G NR Carrier 2CC, SCS 30KHz, Non-Continuous CA, Bandwidth: 20+20MHz _ channel 2506+2680MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
325.0	333	Horizontal	-71.5	-13.0	-58.5	Pass
629.8	19	Horizontal	-72.1	-13.0	-59.1	Pass
894.9	262	Horizontal	-73.4	-13.0	-60.4	Pass
6250.8	32	Horizontal	-51.4	-13.0	-38.4	Pass
10773.2	277	Horizontal	-59.0	-13.0	-46.0	Pass
14415.1	312	Horizontal	-53.6	-13.0	-40.6	Pass
158.0	11	Vertical	-72.0	-13.0	-59.0	Pass
733.5	191	Vertical	-76.4	-13.0	-63.4	Pass
725.1	304	Vertical	-70.7	-13.0	-57.7	Pass
6466.1	345	Vertical	-55.7	-13.0	-42.7	Pass
10718.3	332	Vertical	-56.7	-13.0	-43.7	Pass
14559.0	226	Vertical	-56.4	-13.0	-43.4	Pass



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5G NR Carrier 2CC, SCS 30KHz, Non-Continuous CA, Bandwidth: 80+80MHz _ channel 2356+2650MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
202.7	306	Horizontal	-71.8	-13.0	-58.8	Pass
662.1	163	Horizontal	-72.5	-13.0	-59.5	Pass
1028.5	64	Horizontal	-72.8	-13.0	-59.8	Pass
6297.7	39	Horizontal	-52.0	-13.0	-39.0	Pass
10917.3	123	Horizontal	-59.5	-13.0	-46.5	Pass
14413.2	232	Horizontal	-53.5	-13.0	-40.5	Pass
191.4	318	Vertical	-72.7	-13.0	-59.7	Pass
791.7	217	Vertical	-75.7	-13.0	-62.7	Pass
643.4	145	Vertical	-70.1	-13.0	-57.1	Pass
6509.2	303	Vertical	-55.2	-13.0	-42.2	Pass
10707.1	10	Vertical	-56.2	-13.0	-43.2	Pass
14504.1	24	Vertical	-56.2	-13.0	-43.2	Pass

5G NR Carrier 3CC, SCS 30KHz, Non-Continuous CA, Bandwidth: 60+60+60MHz _ channel 2526+2593+2660MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
343.3	11	Horizontal	-71.1	-13.0	-58.1	Pass
650.6	127	Horizontal	-72.6	-13.0	-59.6	Pass
894.9	335	Horizontal	-73.4	-13.0	-60.4	Pass
6296.2	23	Horizontal	-51.6	-13.0	-38.6	Pass
10898.2	260	Horizontal	-59.3	-13.0	-46.3	Pass
14436.5	327	Horizontal	-53.8	-13.0	-40.8	Pass
154.5	127	Vertical	-72.3	-13.0	-59.3	Pass
713.3	234	Vertical	-76.2	-13.0	-63.2	Pass
648.6	324	Vertical	-70.5	-13.0	-57.5	Pass
6360.3	34	Vertical	-54.8	-13.0	-41.8	Pass
10698.8	333	Vertical	-56.0	-13.0	-43.0	Pass
14380.6	200	Vertical	-56.4	-13.0	-43.4	Pass



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5G NR Carrier 4CC, SCS 30KHz, Non-Continuous CA, Bandwidth: 40+40+40+40MHz _ channel 2516+2567+2619+2670MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
327.7	276	Horizontal	-71.4	-13.0	-58.4	Pass
618.5	1	Horizontal	-72.7	-13.0	-59.7	Pass
924.1	292	Horizontal	-73.2	-13.0	-60.2	Pass
6328.3	194	Horizontal	-52.1	-13.0	-39.1	Pass
10766.4	164	Horizontal	-59.7	-13.0	-46.7	Pass
14459.1	355	Horizontal	-54.2	-13.0	-41.2	Pass
93.2	358	Vertical	-72.2	-13.0	-59.2	Pass
726.6	49	Vertical	-76.2	-13.0	-63.2	Pass
732.0	297	Vertical	-70.2	-13.0	-57.2	Pass
6385.3	319	Vertical	-55.7	-13.0	-42.7	Pass
10759.1	233	Vertical	-56.0	-13.0	-43.0	Pass
14390.2	4	Vertical	-55.9	-13.0	-42.9	Pass

5G NR Carrier 5CC, SCS 30KHz, Non-Continuous CA, Bandwidth: 20+20+20+20+20MHz _ channel 2506+2550+2593+2636+2680MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
237.9	299	Horizontal	-71.9	-13.0	-58.9	Pass
671.0	360	Horizontal	-72.5	-13.0	-59.5	Pass
888.1	350	Horizontal	-72.9	-13.0	-59.9	Pass
6228.3	248	Horizontal	-52.0	-13.0	-39.0	Pass
10747.0	174	Horizontal	-59.1	-13.0	-46.1	Pass
14507.9	255	Horizontal	-53.6	-13.0	-40.6	Pass
213.8	347	Vertical	-72.6	-13.0	-59.6	Pass
725.6	16	Vertical	-76.3	-13.0	-63.3	Pass
822.0	357	Vertical	-70.8	-13.0	-57.8	Pass
6509.6	96	Vertical	-55.1	-13.0	-42.1	Pass
10760.1	297	Vertical	-55.9	-13.0	-42.9	Pass
14462.6	125	Vertical	-56.6	-13.0	-43.6	Pass



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5G NR Carrier 6CC, SCS 30KHz, Non-Continuous CA, Bandwidth: 20+20+20+20+20+20MHz _ channel 2506+2541+2576+2610+2645+2680MHz						
Frequency	Spurious Emission Level			Limit	Over limit	Result
(MHz)	(Deg)	Polaxis	(dBm)	dBm	dB	
186.5	305	Horizontal	-71.3	-13.0	-58.3	Pass
687.0	108	Horizontal	-72.6	-13.0	-59.6	Pass
1012.1	260	Horizontal	-72.7	-13.0	-59.7	Pass
6346.5	236	Horizontal	-51.7	-13.0	-38.7	Pass
10885.3	143	Horizontal	-58.9	-13.0	-45.9	Pass
14414.3	279	Horizontal	-54.1	-13.0	-41.1	Pass
48.3	280	Vertical	-72.5	-13.0	-59.5	Pass
606.3	75	Vertical	-75.7	-13.0	-62.7	Pass
698.5	95	Vertical	-70.6	-13.0	-57.6	Pass
6340.4	171	Vertical	-55.4	-13.0	-42.4	Pass
10737.4	186	Vertical	-56.4	-13.0	-43.4	Pass
14494.4	184	Vertical	-56.0	-13.0	-43.0	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

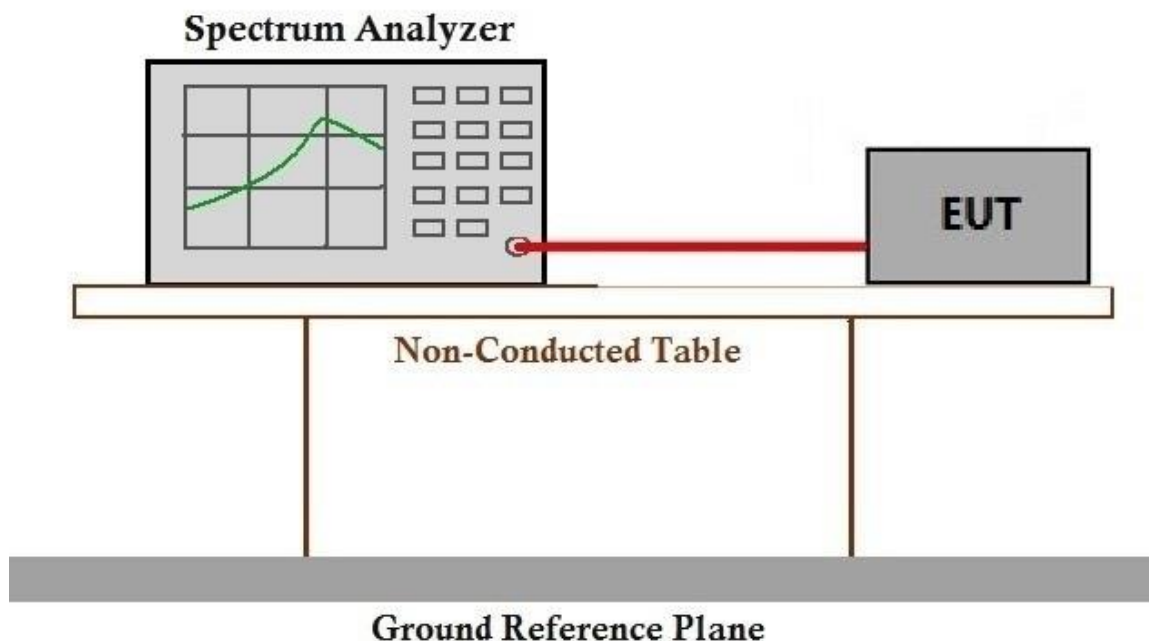
#### 6.7.1 E.U.T. Operation

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 n41 Downlink (Middle Channel 2593MHz)

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 n41 Downlink (Middle Channel 2593MHz)

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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