TEST REPORT

Application No.:	KSCR2210001872AT
FCC ID:	ZMOFG360NA08
Applicant:	Fibocom Wireless Inc.
Address of Applicant:	1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China
Manufacturer:	Fibocom Wireless Inc.
Address of Manufacturer:	1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China
Equipment Under Test (EUT):	
EUT Name:	5G Module
Model No.:	FG360-NA
Trade Mark:	Fibocom
Standard(s) :	47 CFR Part 2 47 CFR Part 96 subpart E
Date of Receipt:	2022-10-08
Date of Test:	2022-10-08 to 2022-10-31
Date of Issue:	2022-11-03
Test Result:	**Pass**

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

Eric Lin
Laboratory Manager

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Revision Record			
Version	**Description**	**Date**	**Remark**
00	Original	2022-11-03	/

Authorized for issue by:				
		Damon zhou **Damon_Zhou/Project Engineer**		
		Eric Lin **Eric Lin /Reviewer**		

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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	§2.1046 §96.41(b)	EIRP≤ 23dBm/10MHz	PASS
Peak-Average Ratio	§96.41(g)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§96.41(e)	Refer to clause 6.4	PASS
Spurious emissions at antenna terminals	§96.41(e)	Refer to clause 6.5	PASS
Field strength of spurious radiation	§2.1051 §96.41(e)	Refer to clause 6.6	PASS
Frequency stability	§2.1055	≤ ±2.5ppm.	PASS

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC4.3V
Hardware Version:	V1.0
Software Version:	81112.7000.30.01.01.09
Operation Frequency Band:	LTE: Band 48 NR: n48 EN-DC: DC_2A_n48A,DC_66A_n48A,DC_48A_n66A,DC_48A_n25A
CA Under Test	LTE:48C NR: CA_n48A-n66A,CA_n25A-n48A,CA_n41A-n48A,CA_n48A-n71A
MIMO function	n48 support 2*2 MIMO
Modulation Type:	LTE: QPSK, 16QAM, 64QAM NR: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256 QAM
LTE Power Class:	Level 3
SCS Information:	30KHz
Antenna Type:	External Antenna
Antenna Gain:	LTE B48:-0.13dBi(Provide by Manufacturer) NR n48: Antenna 1 -0.13 dBi(Provide by Manufacturer); Antenna 2 -0.13 dBi(Provide by Manufacturer)

4.2 Test Frequency

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 48	5	3552.5	3625.0	3697.5
	10	3555.0	3625.0	3695.0
	15	3557.5	3625.0	3692.5
	20	3560.0	3625.0	3690.0

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 48C	10MHz-20MHz	3555.5-3569.9	3615.6-3630.0	3675.6-3690.0
	15MHz-20MHz	3557.8-3574.9	3557.8-3574.9	3672.9-3690.0
	20MHz-10MHz	3560.0-3574.5	3620.1-3634.5	3680.1-3694.5
	20MHz-15MHz	3560.0-3577.1	3617.6-3634.7	3675.1-3692.2
	20MHz-20MHz	3560.0-3579.8	3615.1-3634.9	3670.2-3690.0

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Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
NR FDD n48	5	3552.51	3625.005	3697.50
	10	3555.00	3624.99	3694.98
	15	3557.52	3624.99	3692.49
	20	3560.01	3624.99	3690.00
	40	3570.00	3624.99	3679.98

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TL	-35°C
	TN	+20°C
	TH	+75°C
Voltage:	VL	3.3 V
	VN	3.8 V
	VH	4.3 V

NOTE: VL= lower extreme test voltage
VN= nominal voltage
VH= upper extreme test voltage
TL= lower extreme test temperature
TN= normal temperature
TH= upper extreme test temperature

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10^{-8}
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB

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5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Radiated Spurious emission test	± 3.1dB (Below 1GHz)
		± 4.4dB (Above 1GHz)
8	Temperature test	± 1°C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%

4.6 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).

4.7 Test Facility

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

• 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.

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4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None

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5 Equipment List

NO	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/22/2022	08/21/2023
2	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	08/22/2022	08/21/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
9	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/01/2021	03/31/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/22/2022	03/21/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
13	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
14	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	08/22/2022	08/21/2023
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
16	Software	Faratronic	EZ_EMC-v 3A1	/	N/A	N/A

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6 Radio Spectrum Matter Test Results

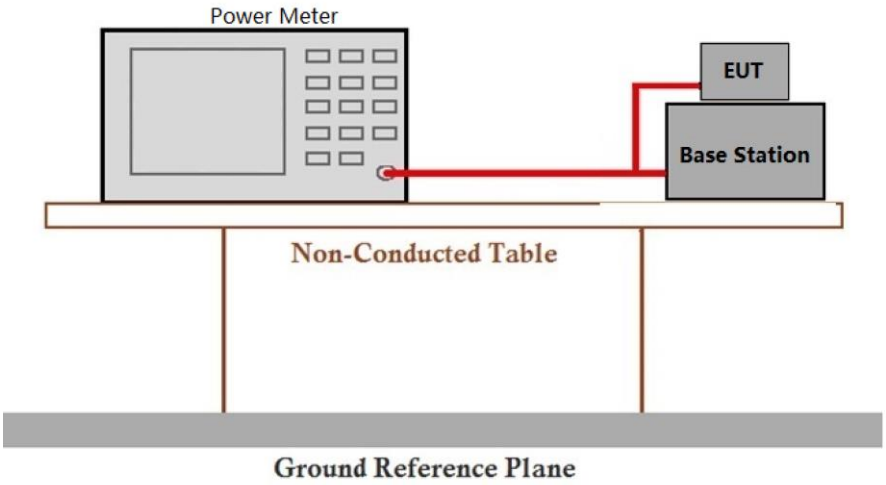
6.1 Effective (Isotropic) Radiated Output Power Data

Test Requirement: §2.1046; §96.41(b)
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: EIRP≤ 23dBm/10MHz

6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix A for KSCR221000187201；Appendix B for KSCR221000187201; Appendix C for KSCR221000187201; Appendix D for KSCR221000187201

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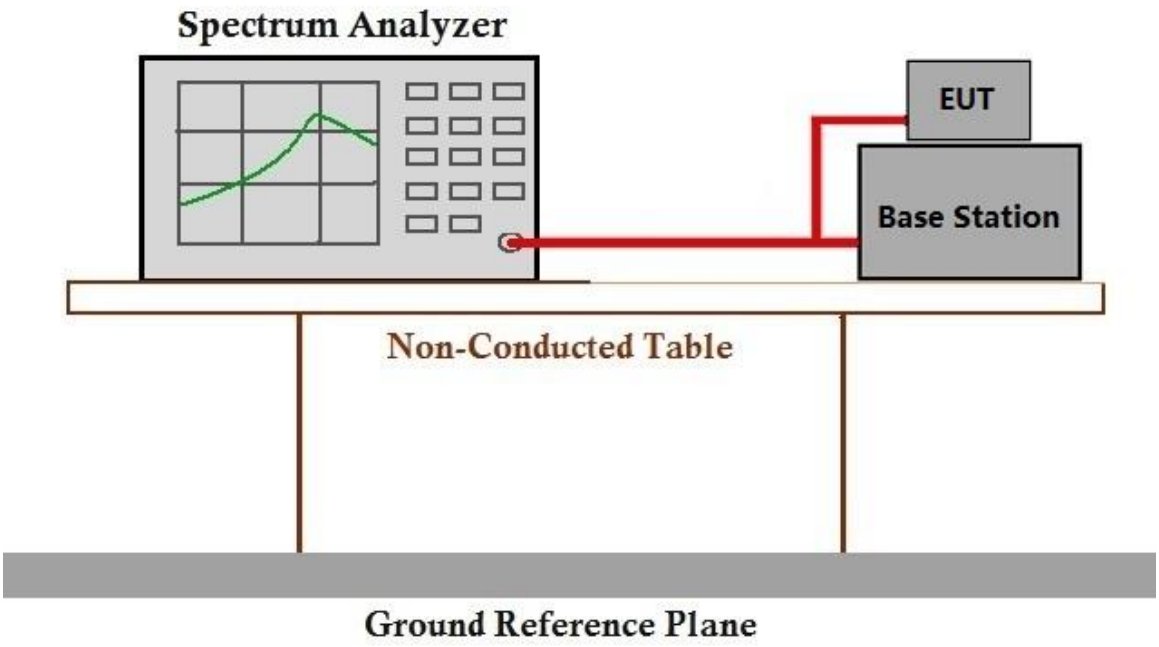
6.2 Peak-Average Ratio

Test Requirement: §96.41(g)
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

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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

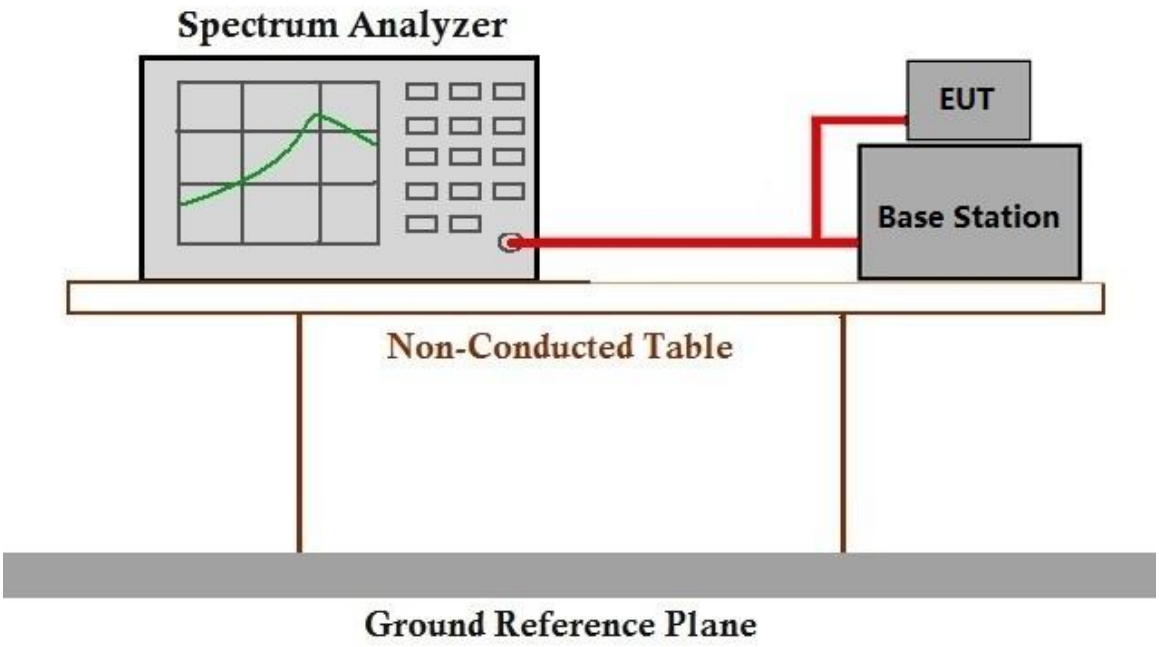
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

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6.4 Band Edge Compliance

Test Requirement: §2.1051, §96.41(e)

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

Limit: Emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz)

At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz

Emissions below 3530MHz or above 3720 MHz shall not exceed -40dBm/MHz

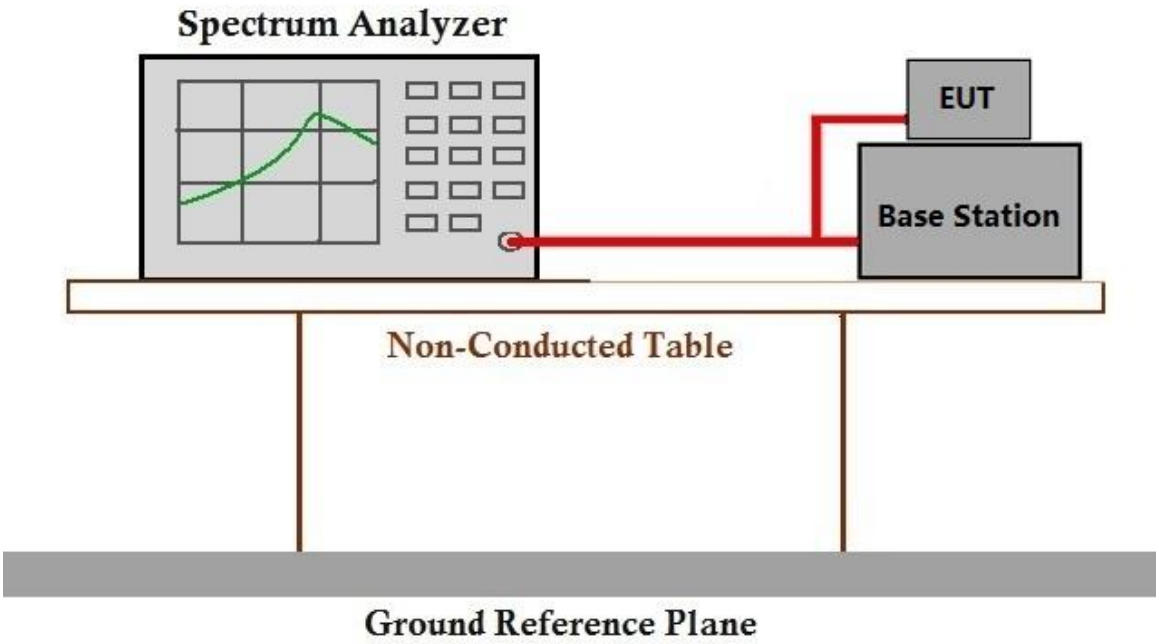
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 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 A for KSCR221000187201； Appendix B for KSCR221000187201; Appendix C for KSCR221000187201; Appendix D for KSCR221000187201

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6.5 Spurious emissions at antenna terminals

Test Requirement:	§2.1051, §96.41(e)
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	Emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz) At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz Emissions below 3530MHz or above 3720 MHz shall not exceed -40dBm/MHz

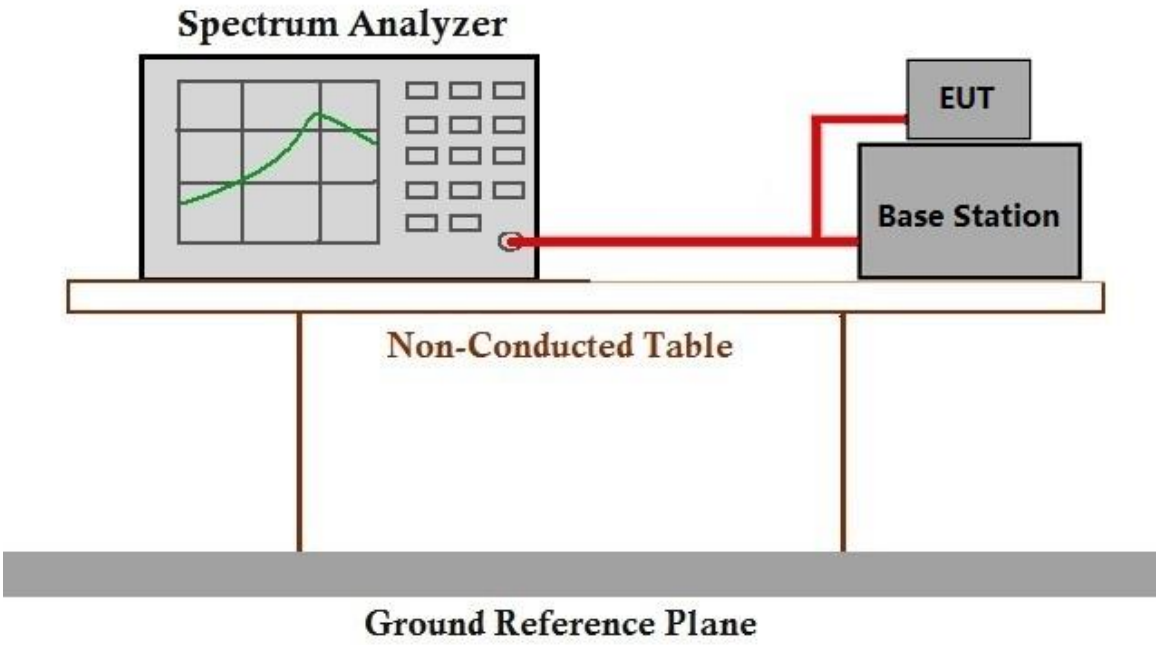
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Please refer to Appendix A for KSCR221000187201； Appendix B for KSCR221000187201; Appendix C for KSCR221000187201; Appendix D for KSCR221000187201

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6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §96.41(e)

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

Limit: Emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz)

At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz

Emissions below 3530MHz or above 3720 MHz shall not exceed -40dBm/MHz

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 18.5 °C Humidity: 39.5 % RH Atmospheric Pressure: 1020 mbar

Test mode Tx mode, Keep the EUT in transmitting mode.

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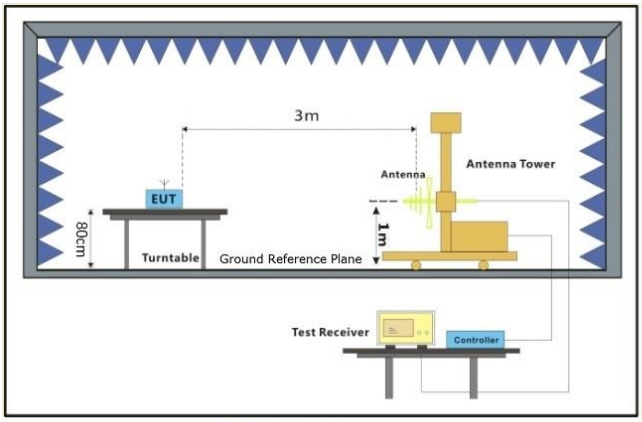
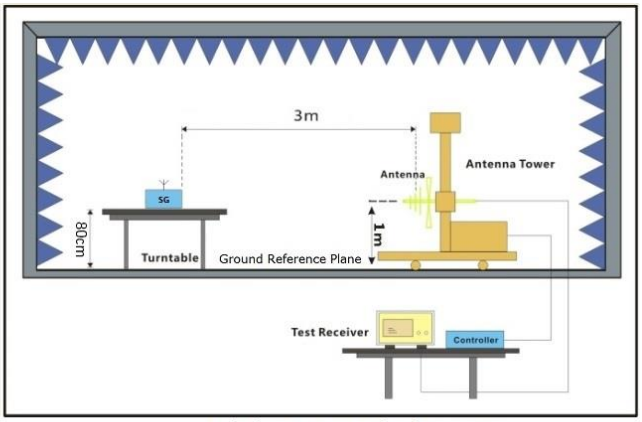
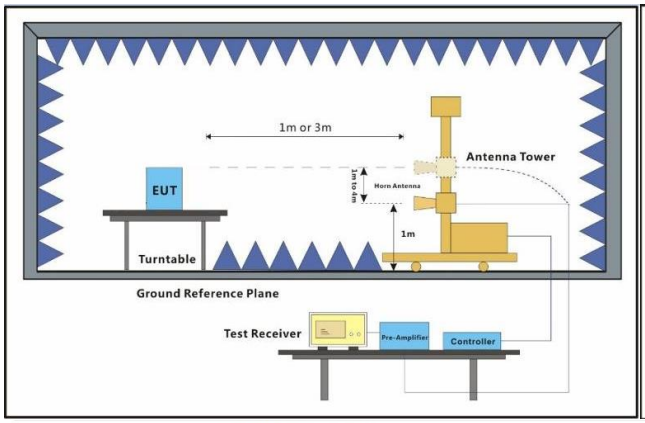
6.6.2 Test Setup Diagram



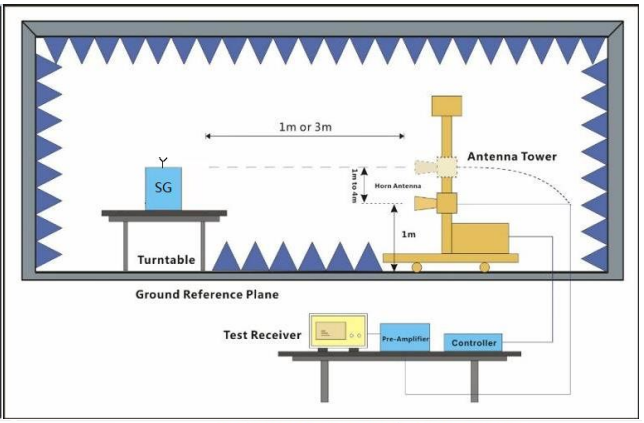
EUT



Substiute Antenna+Signal Generator



EUT



Substiute 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 than 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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LTE Band 48_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7102.1800	46.86	-43.66	36.35	-55.71	-40.00	15.71	256	329	Horizontal
8062.275	45.26	-41.64	37.03	-54.61	-40.00	14.61	142	133	Horizontal
8498.7	44.96	-41.79	37.54	-54.56	-40.00	14.56	166	133	Horizontal
10653.2700	32.78	-37.73	39.10	-61.11	-40.00	21.11	251	299	Horizontal
14204.3600	28.65	-35.33	40.23	-61.72	-40.00	21.72	195	0	Horizontal
17755.4500	32.64	-33.78	40.53	-55.86	-40.00	15.86	180	344	Horizontal

LTE Band 48 _ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7102.1800	47.71	-43.66	36.35	-54.86	-40.00	14.86	184	178	Vertical
8422.8	45.06	-41.47	37.38	-54.29	-40.00	14.29	122	132	Vertical
9567.625	41.28	-39.45	38.45	-54.98	-40.00	14.98	291	132	Vertical
10653.2700	33.34	-37.73	39.10	-60.55	-40.00	20.55	145	344	Vertical
14204.3600	28.12	-35.33	40.23	-62.25	-40.00	22.25	136	132	Vertical
17755.4500	34.69	-33.78	40.53	-53.81	-40.00	13.81	178	100	Vertical

LTE Band 48_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7232.1800	46.51	-43.52	36.58	-55.69	-40.00	15.69	263	180	Horizontal
8422.8	45.74	-41.47	37.38	-53.61	-40.00	13.61	251	315	Horizontal
8943.75	43.24	-40.89	38.17	-54.75	-40.00	14.75	145	117	Horizontal
9449.175	42.11	-39.94	38.48	-54.61	-40.00	14.61	125	300	Horizontal
10848.2700	32.56	-38.15	39.18	-61.66	-40.00	21.66	196	58	Horizontal
14464.3600	30.41	-34.53	40.03	-59.34	-40.00	19.34	174	25	Horizontal

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LTE Band 48_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7232.1800	45.02	-43.52	36.58	-57.18	-40.00	17.18	256	0	Vertical
8413.025	46.10	-41.43	37.36	-53.23	-40.00	13.23	123	1	Vertical
8939.15	42.86	-40.89	38.16	-55.13	-40.00	15.13	142	0	Vertical
9454.35	41.96	-39.94	38.48	-54.77	-40.00	14.77	158	0	Vertical
10848.2700	32.50	-38.15	39.18	-61.72	-40.00	21.72	196	329	Vertical
14464.3600	30.61	-34.53	40.03	-59.14	-40.00	19.14	133	86	Vertical

LTE Band 48_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7362.1800	45.05	-42.99	36.51	-56.69	-40.00	16.69	245	1	Horizontal
8939.15	43.77	-40.89	38.16	-54.22	-40.00	14.22	163	331	Horizontal
9610.75	40.38	-39.23	38.43	-55.68	-40.00	15.68	211	208	Horizontal
11043.2700	31.31	-37.66	39.08	-62.53	-40.00	22.53	198	357	Horizontal
11221.325	35.05	-36.73	39.11	-57.83	-40.00	17.83	145	239	Horizontal
14724.3600	28.41	-34.82	39.77	-61.90	-40.00	21.90	172	86	Horizontal

LTE Band 48_High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7362.1800	45.46	-42.99	36.51	-56.28	-40.00	16.28	125	0	Vertical
8414.75	45.22	-41.43	37.36	-54.11	-40.00	14.11	136	255	Vertical
8939.725	42.87	-40.89	38.16	-55.12	-40.00	15.12	251	132	Vertical
10112.725	37.40	-38.77	38.67	-57.96	-40.00	17.96	145	2	Vertical
11043.2700	32.36	-37.66	39.08	-61.48	-40.00	21.48	126	148	Vertical
14724.3600	28.56	-34.82	39.77	-61.75	-40.00	21.75	133	163	Vertical

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LTE Band 48C_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7102.1800	45.82	-43.66	36.35	-56.75	-40.00	16.75	155	2	Horizontal
8405.55	44.72	-41.39	37.34	-54.59	-40.00	14.59	146	330	Horizontal
10653.2700	33.73	-37.73	39.10	-60.16	-40.00	20.16	256	316	Horizontal
12727.25	33.99	-36.77	39.50	-58.54	-40.00	18.54	235	26	Horizontal
14204.3600	28.61	-35.33	40.23	-61.76	-40.00	21.76	148	41	Horizontal
17755.4500	32.41	-33.78	40.53	-56.09	-40.00	16.09	199	6	Horizontal

LTE Band 48C _ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7102.1800	45.21	-43.66	36.35	-57.36	-40.00	17.36	284	0	Vertical
8400.95	45.03	-41.37	37.33	-54.27	-40.00	14.27	169	1	Vertical
9603.275	41.43	-39.21	38.44	-54.60	-40.00	14.60	145	190	Vertical
10653.2700	32.91	-37.73	39.10	-60.98	-40.00	20.98	175	300	Vertical
14204.3600	28.53	-35.33	40.23	-61.84	-40.00	21.84	182	344	Vertical
17755.4500	32.39	-33.78	40.53	-56.11	-40.00	16.11	194	129	Vertical

LTE Band 48C_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7212.3800	45.60	-43.58	36.59	-56.64	-40.00	16.64	236	356	Horizontal
8411.3	45.51	-41.42	37.35	-53.81	-40.00	13.81	125	6	Horizontal
9452.05	41.88	-39.94	38.48	-54.84	-40.00	14.84	145	0	Horizontal
10818.5700	33.48	-38.35	39.21	-60.92	-40.00	20.92	266	238	Horizontal
12825	34.14	-36.68	39.66	-58.15	-40.00	18.15	285	132	Horizontal
14424.7600	28.77	-34.87	40.06	-61.29	-40.00	21.29	149	238	Horizontal

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LTE Band 48C_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7212.3800	45.00	-43.58	36.59	-57.24	-40.00	17.24	189	239	Vertical
8402.675	44.81	-41.38	37.34	-54.50	-40.00	14.50	192	0	Vertical
9570.5	41.35	-39.42	38.45	-54.89	-40.00	14.89	145	71	Vertical
10818.5700	32.12	-38.35	39.21	-62.28	-40.00	22.28	256	0	Vertical
13910.025	33.58	-35.49	40.06	-57.11	-40.00	17.11	174	56	Vertical
14424.7600	29.40	-34.87	40.06	-60.66	-40.00	20.66	154	6	Vertical

LTE Band 48C_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7322.5800	44.63	-43.21	36.53	-57.30	-40.00	17.30	298	0	Horizontal
8401.525	45.25	-41.38	37.33	-54.05	-40.00	14.05	263	25	Horizontal
9533.7	41.69	-39.70	38.46	-54.82	-40.00	14.82	211	88	Horizontal
10983.8700	32.45	-37.62	39.08	-61.35	-40.00	21.35	140	132	Horizontal
12812.925	33.85	-36.65	39.64	-58.42	-40.00	18.42	178	208	Horizontal
14645.1600	28.52	-35.08	39.88	-61.95	-40.00	21.95	125	0	Horizontal

LTE Band 48C_High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7322.5800	44.96	-43.21	36.53	-56.97	-40.00	16.97	289	301	Vertical
8415.325	45.37	-41.44	37.36	-53.96	-40.00	13.96	148	357	Vertical
9442.85	41.54	-39.94	38.48	-55.18	-40.00	15.18	175	55	Vertical
10983.8700	31.05	-37.62	39.08	-62.75	-40.00	22.75	133	346	Vertical
12730.125	34.33	-36.77	39.51	-58.19	-40.00	18.19	216	330	Vertical
14645.1600	29.26	-35.08	39.88	-61.21	-40.00	21.21	145	209	Vertical

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n48_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7010.1800	47.25	-43.06	36.11	-54.96	-40.00	14.96	256	301	Horizontal
8413.6	46.63	-41.43	37.36	-52.70	-40.00	12.70	236	301	Horizontal
9525.65	42.49	-39.77	38.46	-54.08	-40.00	14.08	215	287	Horizontal
10515.2700	35.64	-38.64	38.98	-59.29	-40.00	19.29	145	210	Horizontal
14020.3600	29.83	-35.04	40.15	-60.32	-40.00	20.32	166	225	Horizontal
17525.4500	31.91	-33.81	39.28	-57.88	-40.00	17.88	291	301	Horizontal

n48_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7010.1800	46.77	-43.06	36.11	-55.44	-40.00	15.44	255	358	Vertical
8465.925	45.53	-41.65	37.47	-53.92	-40.00	13.92	145	165	Vertical
9527.375	42.92	-39.75	38.46	-53.63	-40.00	13.63	126	334	Vertical
10515.2700	35.59	-38.64	38.98	-59.34	-40.00	19.34	236	271	Vertical
14020.3600	29.42	-35.04	40.15	-60.73	-40.00	20.73	269	302	Vertical
17525.4500	31.48	-33.81	39.28	-58.31	-40.00	18.31	148	359	Vertical

n48_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7160.1800	46.33	-43.63	36.50	-56.06	-40.00	16.06	265	196	Horizontal
8407.275	47.93	-41.40	37.35	-51.39	-40.00	11.39	213	242	Horizontal
9093.825	42.85	-40.44	38.27	-54.58	-40.00	14.58	222	242	Horizontal
10740.2700	33.80	-37.89	39.17	-60.18	-40.00	20.18	145	105	Horizontal
14320.3600	31.32	-35.70	40.14	-59.50	-40.00	19.50	185	358	Horizontal
17900.4500	34.06	-34.80	41.54	-54.46	-40.00	14.46	146	88	Horizontal

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n48_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7160.1800	46.19	-43.63	36.50	-56.20	-40.00	16.20	266	360	Vertical
8418.775	47.69	-41.45	37.37	-51.65	-40.00	11.65	215	91	Vertical
8936.275	44.65	-40.90	38.16	-53.34	-40.00	13.34	185	358	Vertical
10740.2700	34.73	-37.89	39.17	-59.25	-40.00	19.25	142	120	Vertical
14320.3600	32.40	-35.70	40.14	-58.42	-40.00	18.42	210	60	Vertical
17900.4500	34.09	-34.80	41.54	-54.43	-40.00	14.43	145	257	Vertical

n48_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7310.1800	45.53	-43.27	36.54	-56.46	-40.00	16.46	216	244	Horizontal
8415.9	46.29	-41.44	37.36	-53.04	-40.00	13.04	235	197	Horizontal
8993.775	43.39	-40.87	38.20	-54.55	-40.00	14.55	145	358	Horizontal
10104.675	38.62	-38.73	38.66	-56.71	-40.00	16.71	125	92	Horizontal
10965.2700	33.90	-37.67	39.10	-59.93	-40.00	19.93	166	354	Horizontal
14620.3600	31.56	-35.23	39.91	-59.02	-40.00	19.02	196	61	Horizontal

n48_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7310.1800	44.71	-43.27	36.54	-57.28	-40.00	17.28	254	182	Vertical
8421.075	45.92	-41.46	37.37	-53.43	-40.00	13.43	196	227	Vertical
8682.7	44.46	-41.26	37.89	-54.18	-40.00	14.18	185	305	Vertical
9011.6	44.19	-40.82	38.21	-53.68	-40.00	13.68	142	4	Vertical
10965.2700	33.45	-37.67	39.10	-60.38	-40.00	20.38	172	258	Vertical
14620.3600	31.00	-35.23	39.91	-59.58	-40.00	19.58	103	105	Vertical

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NR CA n41_n48_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
5002.2000	47.31	-45.63	32.88	-60.70	-40.00	20.70	135	268	Horizontal
7010.1800	46.01	-43.62	36.11	-56.76	-40.00	16.76	165	148	Horizontal
7503.3000	44.32	-43.13	36.44	-57.63	-40.00	17.63	148	268	Horizontal
10004.4000	36.95	-39.23	38.50	-59.05	-40.00	19.05	125	133	Horizontal
10515.2700	35.13	-38.75	38.98	-59.90	-40.00	19.90	196	193	Horizontal
14020.3600	30.05	-35.81	40.15	-60.88	-40.00	20.88	142	178	Horizontal

NR CA n41_n48_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
5002.2000	46.77	-45.63	32.88	-61.24	-40.00	21.24	248	269	Vertical
7010.1800	46.93	-43.62	36.11	-55.84	-40.00	15.84	169	300	Vertical
7503.3000	44.11	-43.13	36.44	-57.84	-40.00	17.84	185	120	Vertical
10004.4000	36.65	-39.23	38.50	-59.35	-40.00	19.35	174	196	Vertical
10515.2700	36.20	-38.75	38.98	-58.83	-40.00	18.83	163	1	Vertical
14020.3600	30.25	-35.81	40.15	-60.68	-40.00	20.68	261	0	Vertical

NR CA n41_n48_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
5096.1600	46.34	-45.38	32.93	-61.37	-40.00	21.37	211	87	Horizontal
7160.1800	46.54	-43.73	36.50	-55.96	-40.00	15.96	145	1	Horizontal
7644.2400	45.58	-43.02	36.48	-56.22	-40.00	16.22	158	194	Horizontal
10192.3200	37.35	-39.47	38.80	-58.58	-40.00	18.58	196	287	Horizontal
10740.2700	34.26	-38.18	39.17	-60.00	-40.00	20.00	184	287	Horizontal
14320.3600	31.31	-35.88	40.14	-59.69	-40.00	19.69	175	73	Horizontal

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NR CA n41_n48_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
5096.1600	48.38	-45.38	32.93	-59.33	-40.00	19.33	211	88	Vertical
7160.1800	46.60	-43.73	36.50	-55.90	-40.00	15.90	145	225	Vertical
7644.2400	44.27	-43.02	36.48	-57.53	-40.00	17.53	236	14	Vertical
10192.3200	35.42	-39.47	38.80	-60.51	-40.00	20.51	222	211	Vertical
10740.2700	34.60	-38.18	39.17	-59.66	-40.00	19.66	145	2	Vertical
14320.3600	31.87	-35.88	40.14	-59.13	-40.00	19.13	193	357	Vertical

NR CA n41_n48_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
5190.1800	47.69	-45.29	32.98	-59.87	-40.00	19.87	214	2	Horizontal
7310.1800	43.81	-43.72	36.54	-58.63	-40.00	18.63	175	1	Horizontal
7785.2700	44.56	-42.43	36.75	-56.37	-40.00	16.37	142	72	Horizontal
10380.3600	35.83	-39.03	38.86	-59.60	-40.00	19.60	156	15	Horizontal
10965.2700	32.86	-37.83	39.10	-61.13	-40.00	21.13	291	1	Horizontal
14620.3600	31.59	-35.16	39.91	-58.92	-40.00	18.92	132	103	Horizontal

NR CA n41_n48_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
5190.1800	47.06	-45.29	32.98	-60.50	-40.00	20.50	211	316	Vertical
7310.1800	43.94	-43.72	36.54	-58.50	-40.00	18.50	142	300	Vertical
7785.2700	44.33	-42.43	36.75	-56.60	-40.00	16.60	158	178	Vertical
10380.3600	35.51	-39.03	38.86	-59.92	-40.00	19.92	136	300	Vertical
10965.2700	35.44	-37.83	39.10	-58.55	-40.00	18.55	251	195	Vertical
14620.3600	31.60	-35.16	39.91	-58.91	-40.00	18.91	145	286	Vertical

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NR CA n48_n66_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3422.1800	37.07	-21.73	29.45	-50.47	-40.00	10.47	215	174	Horizontal
5133.2700	38.09	-19.18	32.95	-43.39	-40.00	3.39	133	31	Horizontal
6844.3600	44.44	-43.72	35.89	-58.65	-40.00	18.65	266	270	Horizontal
7010.1800	45.02	-43.06	36.11	-57.19	-40.00	17.19	142	270	Horizontal
10515.2700	30.09	-38.64	38.98	-64.84	-40.00	24.84	185	102	Horizontal
14020.3600	26.68	-35.04	40.15	-63.47	-40.00	23.47	165	356	Horizontal

NR CA n48_n66_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3422.1800	37.29	-21.73	29.45	-50.25	-40.00	10.25	125	273	Vertical
5133.2700	37.86	-19.18	32.95	-43.62	-40.00	3.62	148	73	Vertical
6844.3600	44.80	-43.72	35.89	-58.29	-40.00	18.29	195	92	Vertical
7010.1800	46.08	-43.06	36.11	-56.13	-40.00	16.13	185	346	Vertical
10515.2700	29.40	-38.64	38.98	-65.53	-40.00	25.53	142	287	Vertical
14020.3600	26.55	-35.04	40.15	-63.60	-40.00	23.60	170	42	Vertical

NR CA n48_n66_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3472.1800	37.46	-21.49	29.50	-49.80	-40.00	9.80	125	210	Horizontal
5208.2700	37.11	-19.00	32.98	-44.17	-40.00	4.17	148	59	Horizontal
6944.3600	44.07	-43.50	36.01	-58.67	-40.00	18.67	185	71	Horizontal
7160.1800	43.15	-43.63	36.50	-59.24	-40.00	19.24	169	132	Horizontal
10740.2700	29.40	-37.89	39.17	-64.58	-40.00	24.58	175	194	Horizontal
14320.3600	26.99	-35.70	40.14	-63.83	-40.00	23.83	143	194	Horizontal

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NR CA n48_n66_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3472.1800	37.80	-21.49	29.50	-49.46	-40.00	9.46	254	142	Vertical
5208.2700	37.53	-19.00	32.98	-43.75	-40.00	3.75	147	204	Vertical
6944.3600	44.42	-43.50	36.01	-58.32	-40.00	18.32	156	102	Vertical
7160.1800	42.43	-43.63	36.50	-59.96	-40.00	19.96	126	41	Vertical
10740.2700	30.93	-37.89	39.17	-63.05	-40.00	23.05	336	24	Vertical
14320.3600	27.94	-35.70	40.14	-62.88	-40.00	22.88	177	0	Vertical

NR CA n48_n66_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7044.3600	44.99	-43.29	36.20	-57.36	-40.00	17.36	215	238	Horizontal
7310.1800	40.56	-43.27	36.54	-61.43	-40.00	21.43	148	1	Horizontal
8412.45	43.22	-41.42	37.36	-56.11	-40.00	16.11	165	0	Horizontal
10669.325	31.24	-37.65	39.12	-62.55	-40.00	22.55	125	72	Horizontal
10965.2700	27.41	-37.67	39.10	-66.42	-40.00	26.42	175	72	Horizontal
14620.3600	26.97	-35.23	39.91	-63.61	-40.00	23.61	140	132	Horizontal

NR CA n48_n66_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3522.1800	36.71	-21.41	29.54	-50.42	-40.00	10.42	254	4	Vertical
7044.3600	45.55	-43.29	36.20	-56.80	-40.00	16.80	166	254	Vertical
7310.1800	40.90	-43.27	36.54	-61.09	-40.00	21.09	235	356	Vertical
9487.7	38.17	-39.96	38.47	-58.58	-40.00	18.58	199	102	Vertical
10965.2700	26.73	-37.67	39.10	-67.10	-40.00	27.10	145	254	Vertical
14620.3600	26.53	-35.23	39.91	-64.05	-40.00	24.05	172	268	Vertical

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NR CA n25_n48_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3704.1800	37.05	-21.64	29.99	-49.85	-40.00	9.85	256	121	Horizontal
7010.1800	46.23	-43.06	36.11	-55.98	-40.00	15.98	236	86	Horizontal
7408.3600	41.75	-42.82	36.49	-59.85	-40.00	19.85	215	356	Horizontal
8931.675	39.09	-40.90	38.16	-58.91	-40.00	18.91	145	1	Horizontal
10515.2700	30.31	-38.64	38.98	-64.62	-40.00	24.62	129	148	Horizontal
14020.3600	26.75	-35.04	40.15	-63.40	-40.00	23.40	133	163	Horizontal

NR CA n25_n48_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3704.1800	35.71	-21.64	29.99	-51.19	-40.00	11.19	125	274	Vertical
7010.1800	44.57	-43.06	36.11	-57.64	-40.00	17.64	146	147	Vertical
7408.3600	41.42	-42.82	36.49	-60.18	-40.00	20.18	238	1	Vertical
10515.2700	28.65	-38.64	38.98	-66.28	-40.00	26.28	145	285	Vertical
12828.45	30.78	-36.69	39.66	-61.51	-40.00	21.51	192	0	Vertical
14020.3600	25.98	-35.04	40.15	-64.17	-40.00	24.17	177	54	Vertical

NR CA n25_n48_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3754.1800	36.58	-21.51	30.17	-50.02	-40.00	10.02	265	19	Horizontal
7160.1800	42.96	-43.63	36.50	-59.43	-40.00	19.43	145	117	Horizontal
7508.3600	41.53	-43.13	36.44	-60.43	-40.00	20.43	195	195	Horizontal
8978.25	39.41	-40.88	38.19	-58.54	-40.00	18.54	128	0	Horizontal
10740.2700	28.27	-37.89	39.17	-65.71	-40.00	25.71	133	195	Horizontal
14320.3600	27.18	-35.70	40.14	-63.64	-40.00	23.64	130	346	Horizontal

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NR CA n25_n48_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3754.1800	37.62	-21.51	30.17	-48.98	-40.00	8.98	133	62	Vertical
7160.1800	43.36	-43.63	36.50	-59.03	-40.00	19.03	400	1	Vertical
7508.3600	42.50	-43.13	36.44	-59.46	-40.00	19.46	254	70	Vertical
9468.725	37.81	-39.95	38.47	-58.92	-40.00	18.92	158	312	Vertical
10740.2700	28.08	-37.89	39.17	-65.90	-40.00	25.90	142	236	Vertical
14320.3600	27.36	-35.70	40.14	-63.46	-40.00	23.46	109	0	Vertical

NR CA n25_n48_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3754.1800	36.36	-21.51	30.17	-50.24	-40.00	10.24	215	359	Horizontal
7310.1800	41.08	-43.27	36.54	-60.91	-40.00	20.91	136	118	Horizontal
7508.3600	41.02	-43.13	36.44	-60.94	-40.00	20.94	256	2	Horizontal
10965.2700	28.17	-37.67	39.10	-65.66	-40.00	25.66	149	0	Horizontal
12827.875	31.54	-36.69	39.66	-60.75	-40.00	20.75	185	356	Horizontal
14620.3600	26.20	-35.23	39.91	-64.38	-40.00	24.38	142	42	Horizontal

NR CA n25_n48_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3754.1800	36.37	-21.51	30.17	-50.23	-40.00	10.23	142	20	Vertical
7310.1800	41.21	-43.27	36.54	-60.78	-40.00	20.78	136	255	Vertical
7508.3600	41.90	-43.13	36.44	-60.06	-40.00	20.06	299	356	Vertical
10965.2700	26.59	-37.67	39.10	-67.24	-40.00	27.24	158	1	Vertical
12838.225	30.98	-36.72	39.67	-61.33	-40.00	21.33	175	41	Vertical
14620.3600	27.48	-35.23	39.91	-63.10	-40.00	23.10	109	72	Vertical

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NR CA n48_n71_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1328.1800	28.02	-24.81	25.61	-66.44	-40.00	26.44	245	177	Horizontal
1992.2700	28.70	-24.47	26.60	-64.43	-40.00	24.43	136	28	Horizontal
2656.3600	29.15	-22.84	28.21	-60.74	-40.00	20.74	256	310	Horizontal
7010.1800	38.88	-43.06	36.11	-63.33	-40.00	23.33	169	359	Horizontal
10515.2700	27.54	-38.64	38.98	-67.39	-40.00	27.39	291	4	Horizontal
14020.3600	21.83	-35.04	40.15	-68.32	-40.00	28.32	148	4	Horizontal

NR CA n48_n71_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1328.1800	28.31	-24.81	25.61	-66.15	-40.00	26.15	211	1	Vertical
1992.2700	28.49	-24.47	26.60	-64.64	-40.00	24.64	226	329	Vertical
2656.3600	29.29	-22.84	28.21	-60.60	-40.00	20.60	236	74	Vertical
7010.1800	39.12	-43.06	36.11	-63.09	-40.00	23.09	254	360	Vertical
10515.2700	27.46	-38.64	38.98	-67.47	-40.00	27.47	156	3	Vertical
14020.3600	21.66	-35.04	40.15	-68.49	-40.00	28.49	236	135	Vertical

NR CA n48_n71_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1343.1800	27.80	-24.90	25.61	-66.75	-40.00	26.75	255	288	Horizontal
2014.7700	28.66	-24.43	26.69	-64.33	-40.00	24.33	146	298	Horizontal
2686.3600	29.04	-22.85	28.26	-60.80	-40.00	20.80	192	83	Horizontal
7160.1800	39.44	-43.63	36.50	-62.95	-40.00	22.95	172	355	Horizontal
10740.2700	26.93	-37.89	39.17	-67.05	-40.00	27.05	135	138	Horizontal
14320.3600	23.63	-35.70	40.14	-67.19	-40.00	27.19	281	359	Horizontal

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NR CA n48_n71_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1343.1800	27.63	-24.90	25.61	-66.92	-40.00	26.92	244	5	Vertical
2014.7700	28.58	-24.43	26.69	-64.41	-40.00	24.41	175	74	Vertical
2686.3600	29.46	-22.85	28.26	-60.38	-40.00	20.38	142	349	Vertical
7160.1800	39.10	-43.63	36.50	-63.29	-40.00	23.29	136	307	Vertical
10740.2700	26.83	-37.89	39.17	-67.15	-40.00	27.15	256	122	Vertical
14320.3600	23.34	-35.70	40.14	-67.48	-40.00	27.48	129	108	Vertical

NR CA n48_n71_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1358.1800	28.46	-24.99	25.61	-66.17	-40.00	26.17	233	308	Horizontal
2037.2700	28.25	-24.37	26.77	-64.61	-40.00	24.61	236	10	Horizontal
2716.3600	28.74	-22.80	28.32	-60.99	-40.00	20.99	216	25	Horizontal
7310.1800	37.39	-43.27	36.54	-64.60	-40.00	24.60	145	108	Horizontal
10965.2700	25.98	-37.67	39.10	-67.85	-40.00	27.85	182	359	Horizontal
14620.3600	23.26	-35.23	39.91	-67.32	-40.00	27.32	138	139	Horizontal

NR CA n48_n71_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1358.1800	28.35	-24.99	25.61	-66.28	-40.00	26.28	245	330	Vertical
2037.2700	28.27	-24.37	26.77	-64.59	-40.00	24.59	126	228	Vertical
2716.3600	28.91	-22.80	28.32	-60.82	-40.00	20.82	133	115	Vertical
7310.1800	37.66	-43.27	36.54	-64.33	-40.00	24.33	236	358	Vertical
10965.2700	25.68	-37.67	39.10	-68.15	-40.00	28.15	256	230	Vertical
14620.3600	23.60	-35.23	39.91	-66.98	-40.00	26.98	149	246	Vertical

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n48_MIMO_ Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7010.1800	44.26	-43.06	36.11	-57.95	-40.00	17.95	215	0	Horizontal
8414.75	43.37	-41.43	37.36	-55.96	-40.00	15.96	236	6	Horizontal
9422.15	37.45	-39.93	38.48	-59.25	-40.00	19.25	255	208	Horizontal
10515.2700	28.43	-38.64	38.98	-66.50	-40.00	26.50	145	150	Horizontal
14020.3600	25.96	-35.04	40.15	-64.19	-40.00	24.19	166	302	Horizontal
17525.4500	27.68	-33.81	39.28	-62.11	-40.00	22.11	291	14	Horizontal

n48_ MIMO_Low Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7010.1800	44.91	-43.06	36.11	-57.30	-40.00	17.30	122	0	Vertical
8409	42.18	-41.41	37.35	-57.14	-40.00	17.14	169	40	Vertical
9462.4	38.41	-39.94	38.47	-58.32	-40.00	18.32	158	192	Vertical
10515.2700	29.34	-38.64	38.98	-65.59	-40.00	25.59	148	299	Vertical
14020.3600	25.16	-35.04	40.15	-64.99	-40.00	24.99	192	147	Vertical
17525.4500	27.83	-33.81	39.28	-61.96	-40.00	21.96	140	285	Vertical

n48_ MIMO_ Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7160.1800	42.00	-43.63	36.50	-60.39	-40.00	20.39	255	14	Horizontal
8409.575	42.66	-41.41	37.35	-56.66	-40.00	16.66	145	87	Horizontal
9412.95	37.80	-39.93	38.49	-58.90	-40.00	18.90	126	0	Horizontal
10740.2700	28.38	-37.89	39.17	-65.60	-40.00	25.60	236	0	Horizontal
14320.3600	27.26	-35.70	40.14	-63.56	-40.00	23.56	251	346	Horizontal
17900.4500	28.44	-34.80	41.54	-60.08	-40.00	20.08	148	225	Horizontal

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n48_ MIMO_Mid Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7160.1800	42.83	-43.63	36.50	-59.56	-40.00	19.56	156	356	Vertical
8411.3	42.49	-41.42	37.35	-56.83	-40.00	16.83	100	2	Vertical
9426.75	37.67	-39.93	38.48	-59.04	-40.00	19.04	125	71	Vertical
10740.2700	28.33	-37.89	39.17	-65.65	-40.00	25.65	193	71	Vertical
14320.3600	29.04	-35.70	40.14	-61.78	-40.00	21.78	251	255	Vertical
17900.4500	30.96	-34.80	41.54	-57.56	-40.00	17.56	145	102	Vertical

n48_ MIMO_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7310.1800	46.06	-43.27	36.54	-55.93	-40.00	15.93	255	0	Horizontal
8413.025	47.18	-41.43	37.36	-52.15	-40.00	12.15	145	164	Horizontal
9134.075	44.66	-40.25	38.29	-52.56	-40.00	12.56	169	72	Horizontal
10081.1	41.77	-38.83	38.62	-53.70	-40.00	13.70	128	356	Horizontal
10965.2700	37.00	-37.67	39.10	-56.83	-40.00	16.83	175	193	Horizontal
14620.3600	33.01	-35.23	39.91	-57.57	-40.00	17.57	142	209	Horizontal

n48_ MIMO_ High Channel									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7310.1800	47.06	-43.27	36.54	-54.93	-40.00	14.93	255	285	Vertical
8407.275	47.75	-41.40	37.35	-51.57	-40.00	11.57	142	268	Vertical
8922.475	45.43	-40.90	38.15	-52.58	-40.00	12.58	166	132	Vertical
9515.875	43.37	-39.84	38.46	-53.27	-40.00	13.27	291	25	Vertical
10965.2700	35.96	-37.67	39.10	-57.87	-40.00	17.87	142	0	Vertical
14620.3600	33.22	-35.23	39.91	-57.36	-40.00	17.36	130	331	Vertical

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NSA 66A-N48A _ Low WORSE									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7010.1800	46.62	-43.06	36.11	-55.59	-40.00	15.59	165	192	Horizontal
8414.75	46.05	-41.43	37.36	-53.28	-40.00	13.28	142	360	Horizontal
8978.25	44.42	-40.88	38.19	-53.53	-40.00	13.53	133	74	Horizontal
10515.2700	35.19	-38.64	38.98	-59.74	-40.00	19.74	251	134	Horizontal
14020.3600	29.88	-35.04	40.15	-60.27	-40.00	20.27	199	360	Horizontal
17525.4500	32.30	-33.81	39.28	-57.49	-40.00	17.49	146	134	Horizontal

NSA 66A-N48A _ Low WORSE									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7010.1800	45.49	-43.06	36.11	-56.72	-40.00	16.72	254	14	Vertical
8424.525	45.87	-41.48	37.38	-53.48	-40.00	13.48	166	331	Vertical
8985.725	44.22	-40.88	38.19	-53.72	-40.00	13.72	258	345	Vertical
10515.2700	35.00	-38.64	38.98	-59.93	-40.00	19.93	132	360	Vertical
14020.3600	29.68	-35.04	40.15	-60.47	-40.00	20.47	158	360	Vertical
17525.4500	32.25	-33.81	39.28	-57.54	-40.00	17.54	196	317	Vertical

NSA 66A-N48A _ Mid WORSE									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7160.1800	45.05	-43.63	36.50	-57.34	-40.00	17.34	269	166	Horizontal
8413.6	45.97	-41.43	37.36	-53.36	-40.00	13.36	254	74	Horizontal
9442.85	43.04	-39.94	38.48	-53.68	-40.00	13.68	145	259	Horizontal
10740.2700	33.17	-37.89	39.17	-60.81	-40.00	20.81	185	121	Horizontal
14320.3600	31.26	-35.70	40.14	-59.56	-40.00	19.56	192	354	Horizontal
17900.4500	33.74	-34.80	41.54	-54.78	-40.00	14.78	130	4	Horizontal

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NSA 66A-N48A _ Mid WORSE									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7160.1800	45.19	-43.63	36.50	-57.20	-40.00	17.20	168	360	Vertical
8403.25	46.00	-41.38	37.34	-53.31	-40.00	13.31	145	166	Vertical
9461.25	42.49	-39.94	38.47	-54.24	-40.00	14.24	269	226	Vertical
10740.2700	33.90	-37.89	39.17	-60.08	-40.00	20.08	281	226	Vertical
14320.3600	30.72	-35.70	40.14	-60.10	-40.00	20.10	145	358	Vertical
17900.4500	33.18	-34.80	41.54	-55.34	-40.00	15.34	122	150	Vertical

NSA 66A-N48A _ High WORSE									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7310.1800	44.41	-43.27	36.54	-57.58	-40.00	17.58	254	195	Horizontal
8412.45	46.05	-41.42	37.36	-53.28	-40.00	13.28	126	151	Horizontal
9427.325	42.64	-39.93	38.48	-54.07	-40.00	14.07	299	255	Horizontal
10965.2700	32.69	-37.67	39.10	-61.14	-40.00	21.14	145	360	Horizontal
12842.25	35.26	-36.73	39.67	-57.05	-40.00	17.05	133	240	Horizontal
14620.3600	31.75	-35.23	39.91	-58.83	-40.00	18.83	258	209	Horizontal

NSA 66A-N48A _ High WORSE									
Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7310.1800	45.21	-43.27	36.54	-56.78	-40.00	16.78	252	300	Vertical
8463.625	46.09	-41.64	37.46	-53.35	-40.00	13.35	141	210	Vertical
9528.525	42.54	-39.74	38.46	-54.01	-40.00	14.01	196	344	Vertical
10965.2700	33.34	-37.67	39.10	-60.49	-40.00	20.49	142	271	Vertical
12873.875	34.86	-36.80	39.70	-57.50	-40.00	17.50	106	4	Vertical
14620.3600	30.73	-35.23	39.91	-59.85	-40.00	19.85	233	360	Vertical

Remark:

1) Pretest was performed at the EUT in required band,channel,modulation,bandwidth, and only the data of the worst case showed in the test report.

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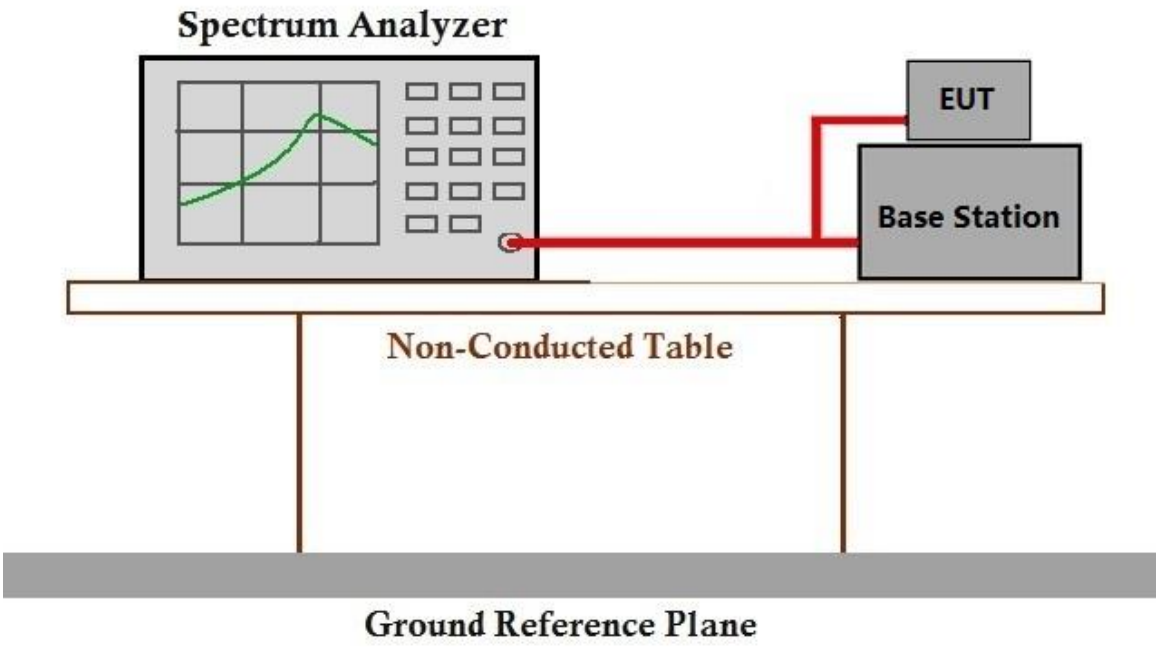
6.7 Frequency stability

Test Requirement: §2.1055
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ≤ ±2.5ppm.

6.7.1 E.U.T. Operation

Operating Environment:
Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix A for KSCR221000187201；Appendix B for KSCR221000187201; Appendix C for KSCR221000187201;

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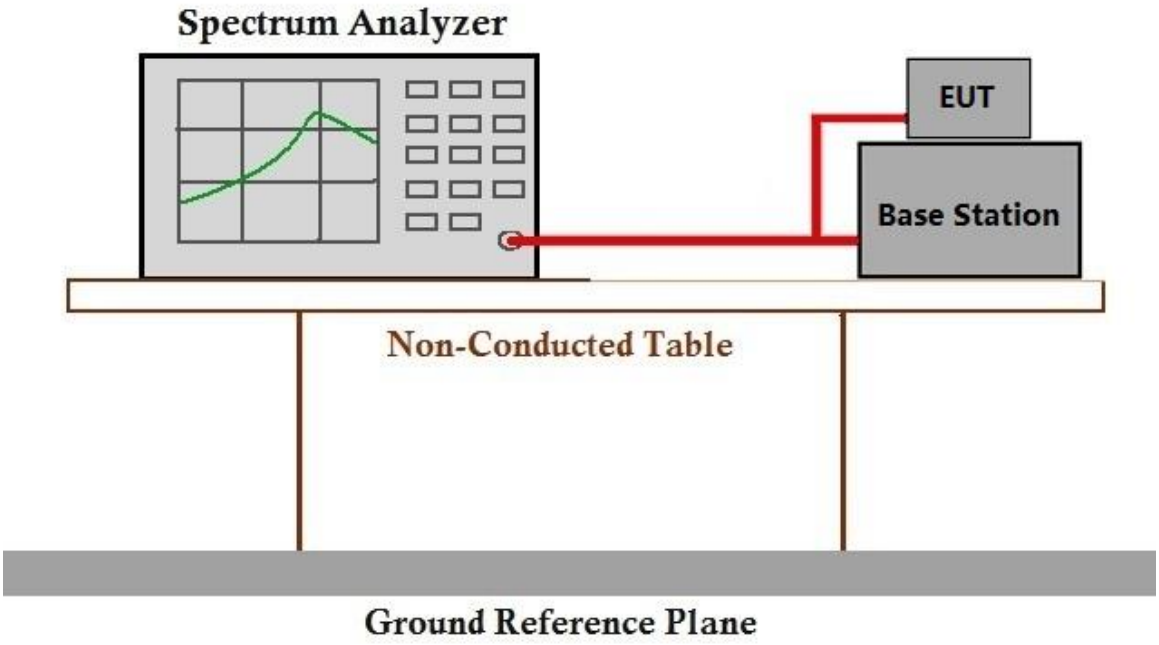
6.8 Modulation Characteristics

Test Requirement: §2.1047
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: Digital modulation

6.8.1 E.U.T. Operation

Operating Environment:
Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

Please refer to Appendix A for KSCR221000187201； Appendix B for KSCR221000187201; Appendix C for KSCR221000187201;

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7 Test Setup Photographs

Refer to the < Test Setup photos>.

8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -

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