TEST REPORT

Applicant Name:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT, Hong Kong
Report Number:	2401S71481E-RF-00A
FCC ID:	2AIZN-X6962

Test Standard (s)

FCC PART 27; FCC PART 22H

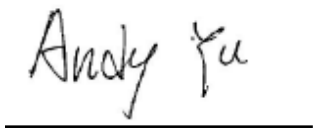
Sample Description

Product Type:	Mobile Phone
Model No.:	X6962
Multiple Model(s) No.:	N/A
Trade Mark:	Infinix
Date Received:	2024/04/22
Issue Date:	2024/06/05

Test Result:	Pass▲

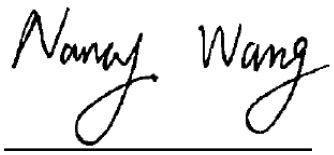
▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:



Andy Yu
RF Engineer

Approved By:



Nancy Wang
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401S71481E-RF-00A	Original Report	2024/06/05

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Mobile Phone
Tested Model	X6962
Multiple Model(s)	N/A
Frequency Range	5G NR Band 5: 824-849 MHz(TX); 869-894MHz(RX) 5G NR Band 7: 2500-2570 MHz(TX); 2620-2690MHz(RX) 5G NR Band 12: 699-716MHz(TX); 729-746MHz(RX) 5G NR Band 38: 2570-2620MHz(TX/RX) 5G NR Band 41: 2496-2690MHz(TX/RX) 5G NR Band 66: 1710-1780MHz(TX); 2110-2180MHz(RX) 5G NR Band 77_1: 3450-3550MHz (TX/RX) 5G NR Band 77_3: 3700-3980MHz(TX/RX) 5G NR Band 78_1: 3450-3550MHz (TX/RX) 5G NR Band 78_3: 3700-3800MHz(TX/RX)
EN-DC possible combinations	DC_2A_n7A, DC_5A_n7A, DC_7A_n7A, DC_66A_n7A, , DC_7A_n5A, DC_4A_n38A, DC_5A_n38A, DC_66A_n38A, DC_4A_n41A, DC_5A_n41A, DC_41A_n41A, DC_66A_n41A, DC_2A_n66A, DC_5A_n66A, DC_7A_n66A, DC_66A_n66A, DC_2A_n78A, DC_4A_n78A, DC_5A_n78A, DC_7A_n78A, DC_38A_n78A, DC_41A_n78A, DC_66A_n78A, DC_5A_n77A, DC_7A_n77A, DC_41A_n77A, DC_66A_n77A
Carrier aggregation	None Carrier aggregation
Modulation Technique	DFT-s-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Antenna Specification#	Please refer to the Antenna Specifications#, which was provided by manufacturer.
Voltage Range	DC 3.91V from battery or DC 5V/5-10/11V/4-20V from adapter
Sample serial number	QSEB119572-1 for Radiated Emissions Test QSEB119572-2 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Normal/Extreme condition#	VL: Low Voltage 3.45V VN: Normal Voltage 3.91V VH: High Voltage 4.5V (provided by the applicant)
Adapter Information	Model: U700XSA Input: 100~240V,50/60Hz,2.0A Output: 5.0V,3.0A,15.0W or 5.0-10.0V,7.0A Max or 11.0V,6.4A Max or 4.0~20.0V,3.5A 70.0W Max
Remark: 1. For NSA mode, we only show the combination of the maximum power among all NSA combinations in the report as below: DC_5A_n7A, DC_5A_n38A, DC_5A_n41A, DC_5A_n66A, DC_5A_n77A, DC_5A_n78A, DC_7A_n5A 2. Te device is an End User Device. 3. The device has multiple antennas in each frequency band, all of which share the same transmit signal paths, and the transmit antenna is selected by the antenna switch. Only the worst case is recorded in this report.	

Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part 27 of the Federal Communication Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
Part 27 - Miscellaneous Wireless Communications Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		±5%
RF Frequency		213.55Hz(k=2, 95% level of confidence)
RF output power, conducted		0.72 dB(k=2, 95% level of confidence)
Unwanted Emission, conducted		1.75 dB(k=2, 95% level of confidence)
Emissions, Radiated	30MHz~200MHz (Horizontal)	4.48dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	4.55dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	4.85dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.05dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.35dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.44dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.16dB(k=2, 95% level of confidence)
Temperature		±1℃
Humidity		±1%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The final qualification test was performed with the EUT operating at normal mode.

The test items were performed with the EUT operating at testing mode. Test was performed with channels as below table:

Bands	Frequency Range (MHz)	Bandwidth (MHz)	Test Frequency (MHz)		
			Low Channel	Middle Channel	High Channel
N5	824-849	5	826.5	836.5	846.5
		10	829.0	836.5	844.0
		15	831.5	836.5	841.5
		20	834.0	836.5	839.0
N7	2500-2570	5	2502.5	2535	2567.5
		10	2505.0	2535	2565.0
		15	2507.5	2535	2562.5
		20	2510.0	2535	2560.0
N12	699-716	5	701.5	707.5	713.5
		10	704.0	707.5	711.0
		15	706.5	707.5	708.5
N38	2570-2620	5	2572.5	2595	2617.5
		10	2575	2595	2615
		15	2577.5	2595	2612.5
		20	2580	2595	2610
		25	2582.5	2595	2607.5
		30	2585	2595	2605
		40	2590.0	2595.0	2600

Bands	Frequency Range (MHz)	Bandwidth (MHz)	Test Frequency (MHz)		
			Low Channel	Middle Channel	High Channel
N41	2496-2690	10	2501.01	2592.99	2685
		15	2503.5	2592.99	2682.48
		20	2506.02	2592.99	2679.99
		30	2511.00	2592.99	2674.99
		40	2516.01	2592.99	2670.00
		50	2521.02	2592.99	2664.99
		60	2526.00	2592.99	2659.99
		80	2536.02	2592.99	2649.99
		90	2541.0	2592.99	2644.98
		100	2546.01	2592.99	2640.00
N66	1710-1780	5	1712.5	1745	1777.5
		10	1715	1745	1775
		15	1717.5	1745	1772.5
		20	1720	1745	1770
		25	1722.5	1745	1767.5
		30	1725	1745	1765
		40	1730	1745	1760
N77_1	3450-3550	10	3455.0	3500.0	3545.0
		15	3457.5	3500.0	3542.5
		20	3460.0	3500.0	3540.0
		30	3465.0	3500.0	3535.0
		40	3470.0	3500.0	3530.0
		50	3475.0	3500.0	3525.0
		60	3480.0	3500.0	3520.0
		70	3485.0	3500.0	3515.0
		80	3490.0	3500.0	3510.0
		90	3495.0	3500.0	3505.0
		100	/	3500.0	/

Bands	Frequency Range (MHz)	Bandwidth (MHz)	Test Frequency (MHz)		
			Low Channel	Middle Channel	High Channel
N77_3	3700-3980	10	3705.0	3840.0	3975.0
		15	3707.5	3840.0	3972.5
		20	3710.0	3840.0	3970.0
		30	3715.0	3840.0	3965.0
		40	3720.0	3840.0	3960.0
		50	3725.0	3840.0	3955.0
		60	3730.0	3840.0	3950.0
		70	3735.0	3840.0	3945.0
		80	3740.0	3840.0	3940.0
		90	3745.0	3840.0	3935.0
		100	3750.0	3840.0	3930.0
N78_1	3450-3550	10	3455.0	3500.0	3545.0
		15	3457.5	3500.0	3542.5
		25	3462.5	3475.0	3537.5
		30	3465.0	3500.0	3535.0
		40	3470.0	3500.0	3530.0
		50	3475.0	3500.0	3525.0
		60	3480.0	3500.0	3520.0
		70	3485.0	3500.0	3515.0
		80	3490.0	3500.0	3510.0
		90	3495.0	3500.0	3505.0
		100	/	3500.0	/

Bands	Frequency Range (MHz)	Bandwidth (MHz)	Test Frequency (MHz)		
			Low Channel	Middle Channel	High Channel
N78_3	3700-3800	10	3705.0	3750.0	3795.0
		15	3707.5	3750.0	3792.5
		25	3712.5	3750.0	3787.5
		30	3715.0	3750.0	3785.0
		40	3720.0	3750.0	3780.0
		50	3725.0	3750.0	3775.0
		60	3730.0	3750.0	3770.0
		70	3735.0	3750.0	3765.0
		80	3740.0	3750.0	3760.0
		90	3745.0	3750.0	3755.0
		100	/	3750.0	/

Note:
1. SCS 15kHz, 30kHz, 60kHz was supports by the device, they have same output power, so only SCS 15kHz was tested for FDD band, and SCS 15kHz/30kHz tested for TDD band.
2. For modulation of CP-OFDM and DFT-s-OFDM, the maximum power of CP-OFDM is lower than DFT-s-OFDM modulation, therefore, we chose higher power (DFT-s-OFDM modulation) to perform all tests and show in the report.

Equipment Modifications

No modification was made to the EUT.

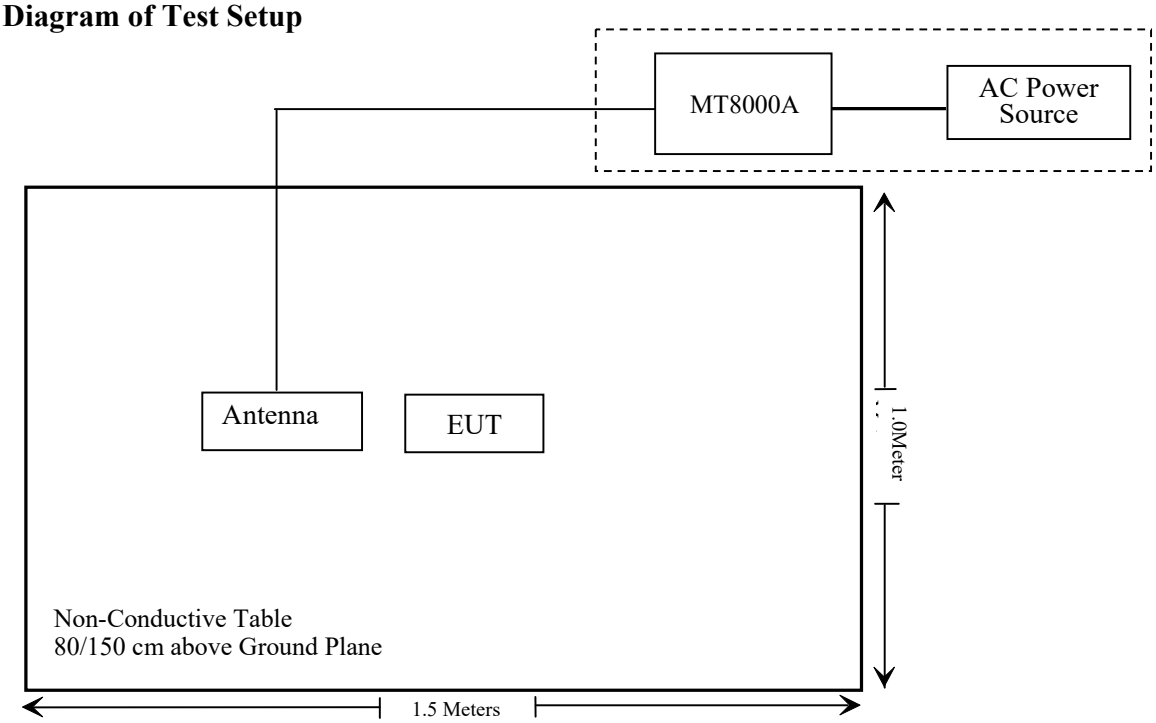
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Anritsu	Radio Communication Test Station	MT8000A	6262309799

Support Cable Description

Cable Description	Length (m)	From / Port	To
Un-shielded Un-detachable AC cable	1.2	AC Power	MT8000A

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
§1.1307 ,§2.1093	RF Exposure Information	Compliant
§2.1046; § 22.913(a)(d); §27.50(c)(d)(h)(j)(k);	RF Output Power	Compliant
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905; § 22.917;§27.53	Occupied Bandwidth	Compliant
§ 2.1051; §22.917(a); §27.53;	Spurious Emissions at Antenna Terminal	Compliant
§ 2.1053; § 22.917(a); §27.53	Field Strength of Spurious Radiation	Compliant
§ 22.917(a); §27.53(g)(h)(l)(m)(n)	Band Edge	Compliant
§ 2.1055; § 22.355;§27.54	Frequency stability	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15
Sonoma instrument	Pre-amplifier	310 N	186238	2023/06/08	2024/06/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber Cable 1	F-03-EM236	2023/08/03	2024/08/02
Unknown	Cable	Chamber Cable 4	EC-007	2023/08/03	2024/08/02
COM-POWER	Dipole Antenna	AD-100	721027	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
COM-POWER	Pre-amplifier	PA-122	181919	2023/06/29	2024/06/28
Schwarzbeck	Horn Antenna	BBHA9120D (1201)	1143	2023/07/26	2026/07/25
A.H.System	Horn Antenna	SAS-200/571	135	2021/07/14	2024/07/13
Unknown	RF Cable	KMSE	0735	2023/10/08	2024/10/07
Unknown	RF Cable	UFA147	219661	2023/10/08	2024/10/07
Unknown	RF Cable	XH750A-N	J-10M	2023/10/08	2024/10/07
Unknown	1.3G High Pass filter	1.3GHz	101120	2023/08/03	2024/08/02
JD	Filter Switch Unit	DT7210FSU	DQ77930	NCR	NCR
JD	Multiplex Switch Test Control Set	DT7220FSU	DQ77926	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262287697	2023/12/18	2024/12/17
Anritsu	Radio Communication Test Station	MT8000A	6262309799	2023/12/18	2024/12/17
A.H.System	Pre-amplifier	PAM-1840VH	190	2023/08/02	2024/08/01
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
Electro-Mechanics Co	Horn Antenna	3116	2026	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2023/08/03	2024/08/02
Agilent	Signal Generator	N5183A	MY50140588	2023/12/18	2024/12/17

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
R&S	spectrum analyzer	FSV40	101942	2023/12/18	2024/12/17
BACL	Temperature & Humidity Chamber	BTH-150-40	30145	2024/01/16	2025/01/15
Anritsu	Radio Communication Analyzer	MT8821C	6262287697	2023/12/18	2024/12/17
Anritsu	Radio Communication Test Station	MT8000A	6262309799	2023/12/18	2024/12/17
Keysight	UXM 5G Wireless Test Platform	E7515B	MY58120284	2024/04/15	2025/04/14
JD	Filter Switch Unit	DT7210FSU	DQ77930	NCR	NCR
JD	Multiplex Switch Test Control Set	DT7210SCU	DQ77929	NCR	NCR
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2023/06/08	2024/06/07
WEINSCHEL	3dB Attenuator	Unknown	F-03-EM220	2023/07/04	2024/07/03
WEINSCHEL	Power Splitter	1515	RH397	2023/07/04	2024/07/03
Micro-Tronics	RF Cable	8082135	W1113	2023/07/04	2024/07/03

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: 2401S71481E-SA.

FCC§2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d) , Part 22H and Part 27, there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC § 2.1046, § 22.913 (a) (d) & §27.50(c)(d)(h)(j)(k) - RF OUTPUT POWER

Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to §27.50(c), Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP. And Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to §27.50(d),Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

According to §27.50 (h) The following power limits shall apply in the BRS and EBS:
(2)Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to §27.50 (j) The following power requirements apply to stations transmitting in the 3700–3980 MHz band:
(3) Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

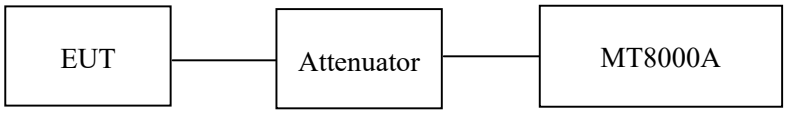
According to §27.50 (k) The following power requirements apply to stations transmitting in the 3450–3550 MHz band:
(3) Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

Test Procedure

Conducted method: ANSI C63.26-2015 Section 5.2

The RF output of the transmitter was connected to the MT8000A through sufficient attenuation.



Test Data

Environmental Conditions

Temperature:	24.5~25.8 ℃
Relative Humidity:	44~60%
ATM Pressure:	101kPa

The testing was performed by Jim Cheng from 2024-04-25 to 2024-05-18.

EUT operation mode: Transmitting (Worst case record in the reports)

Please refer to the Appendix D1& Appendix D2 for Conducted Power
Please refer to the Appendix E1 for Peak-to-average ratio (PAR)

FCC §2.1049, §22.917, §22.905 &§27.53- OCCUPIED BANDWIDTH

Applicable Standard

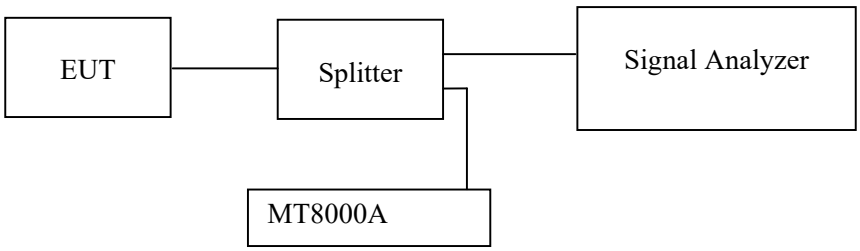
FCC 47 §2.1049, §27.53, §22.917, §22.905,

Test Procedure

ANSI C63.26-2015 Section 5.4.4

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 1% to 5% of the anticipated emission bandwidth and the 26 dB & 99% bandwidth was recorded.



Test Data

Environmental Conditions

Temperature:	24.5~25.8 ℃
Relative Humidity:	44~60%
ATM Pressure:	101kPa

The testing was performed by Jim Cheng from 2024-04-27 to 2024-06-05.

EUT operation mode: Transmitting (Worst case record in the reports)

Test Result: Pass

Please refer to the Appendix F1 for occupied bandwidth

FCC §2.1051, §22.917(a) & §27.53 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard

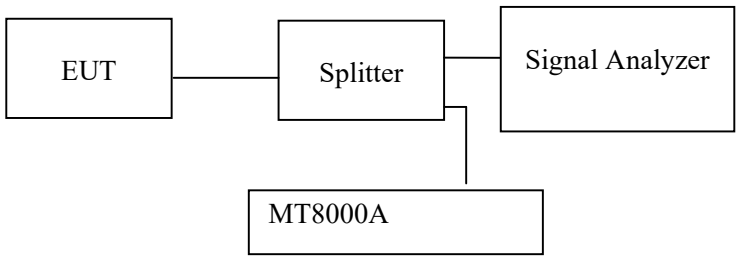
FCC §2.1051, §22.917(a) & §27.53

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

Test Procedure

ANSI C63.26-2015 Section 5.7

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10^{th} harmonic.



Note: the worst case path loss (cable loss and splitter inset loss) among the test frequency range has included in plots.

Test Data

Environmental Conditions

Temperature:	24.5~25.8 ℃
Relative Humidity:	44~60%
ATM Pressure:	101kPa

The testing was performed by Jim Cheng from 2024-04-26 to 2024-05-08.

EUT operation mode: Transmitting (Worst case record in the reports)

Test result: Pass

Please refer to the Appendix G1 for spurious emissions at antenna terminals.

FCC § 2.1053; § 22.917 (a); §27.53 - SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, §22.917(a) & § 27.53

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

Test Procedure

ANSI/TIA-603-E-2016 Section 2.2.12
KDB 671168 D01 v03r01 Section 6.2

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Test Data

Environmental Conditions

Temperature:	25~25.6 ℃
Relative Humidity:	50 %
ATM Pressure:	101 kPa

The testing was performed by Warren Huang from 2024-05-08 to 2024-05-11 for Below1GHz and Dylan Yang from 2024-05-10 to 2024-05-11 for above 1GHz.

EUT operation mode: Transmitting (Scan with X-axis, Y-axis, Z-axis, the worst case Y-axis was recorded)

The worst case is as below:

Test Mode Description: *(worst case)*

Mode	NR Band	Channel	SCS(kHz)	Condition
SA	n5	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n7	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n12	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n38	Low/Middle/High	30	5MHz_DFT-s-OFDM (QPSK)
	n41	Low/Middle/High	30	10MHz_DFT-s-OFDM (QPSK)
	n66	Low/Middle/High	15	5MHz_DFT-s-OFDM (QPSK)
	n77	Low/Middle/High	30	10MHz_DFT-s-OFDM (QPSK)
	n78	Low/Middle/High	30	10MHz_DFT-s-OFDM (QPSK)
NSA	DC_5A_n7A	Low/Middle/High	15	10MHz|5MHz_QPSK|DFT-s-OFDM (QPSK)
	DC_5A_n38A	Low/Middle/High	30	10MHz|5MHz_QPSK|DFT-s-OFDM (QPSK)
	DC_5A_n41A	Low/Middle/High	30	10MHz|10MHz_QPSK|DFT-s-OFDM (QPSK)
	DC_5A_n66A	Low/Middle/High	15	10MHz|5MHz_QPSK|DFT-s-OFDM (QPSK)
	DC_5A_n77A	Low/Middle/High	30	10MHz|10MHz_QPSK|DFT-s-OFDM (QPSK)
	DC_5A_n78A	Low/Middle/High	30	10MHz|10MHz_QPSK|DFT-s-OFDM (QPSK)
	DC_7A_n5A	Low/Middle/High	15	10MHz|5MHz_QPSK|DFT-s-OFDM (QPSK)

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
N5_ ANT1								
Low Channel								
958.4	33.15	H	-63.4	1.36	0.0	-64.76	-13	51.76
958.4	32.10	V	-62.0	1.36	0.0	-63.36	-13	50.36
1653.00	51.99	H	-55.6	0.90	8.60	-47.90	-13	34.90
1653.00	50.32	V	-57.8	0.90	8.60	-50.10	-13	37.10
2479.50	50.69	H	-56.7	1.10	8.80	-49.00	-13	36.00
2479.50	52.08	V	-55.0	1.10	8.80	-47.30	-13	34.30
3306.00	49.32	H	-56.7	1.30	8.80	-49.20	-13	36.20
3306.00	50.79	V	-54.9	1.30	8.80	-47.40	-13	34.40
Middle Channel								
955.7	33.36	H	-63.1	1.36	0.0	-64.46	-13	51.46
955.7	32.24	V	-61.8	1.36	0.0	-63.16	-13	50.16
1673.00	51.11	H	-56.5	0.90	8.60	-48.80	-13	35.80
1673.00	50.25	V	-57.9	0.90	8.60	-50.20	-13	37.20
2509.50	50.32	H	-57.0	1.10	8.80	-49.30	-13	36.30
2509.50	51.61	V	-55.5	1.10	8.80	-47.80	-13	34.80
3346.00	48.67	H	-57.3	1.30	8.80	-49.80	-13	36.80
3346.00	50.23	V	-55.5	1.30	8.80	-48.00	-13	35.00
High Channel								
952.2	33.43	H	-63.1	1.36	0.0	-64.46	-13	51.46
952.2	32.40	V	-61.7	1.36	0.0	-63.06	-13	50.06
1693.00	50.84	H	-56.7	0.90	8.60	-49.00	-13	36.00
1693.00	49.40	V	-58.7	0.90	8.60	-51.00	-13	38.00
2539.50	49.90	H	-57.5	1.10	8.80	-49.80	-13	36.80
2539.50	51.16	V	-56.0	1.10	8.80	-48.30	-13	35.30
3386.00	48.40	H	-57.6	1.30	9.90	-49.00	-13	36.00
3386.00	49.86	V	-55.8	1.30	9.90	-47.20	-13	34.20
N7_ ANT5								
Low Channel								
954.3	31.65	H	-64.9	1.36	0.0	-66.26	-25	41.26
954.3	32.52	V	-61.5	1.36	0.0	-62.86	-25	37.86
5005.00	52.88	H	-50.4	1.50	9.80	-42.10	-25	17.10
5005.00	49.76	V	-52.8	1.50	9.80	-44.50	-25	19.50
Middle Channel								
957.5	31.82	H	-64.7	1.36	0.0	-66.06	-25	41.06
957.5	32.74	V	-61.3	1.36	0.0	-62.66	-25	37.66
5070.00	53.25	H	-49.9	1.50	9.60	-41.80	-25	16.80
5070.00	47.82	V	-54.8	1.50	9.60	-46.70	-25	21.70
High Channel								
952.0	31.96	H	-64.5	1.36	0.0	-65.86	-25	40.86
952.0	32.82	V	-61.2	1.36	0.0	-62.56	-25	37.56
5135.00	54.13	H	-49.0	1.50	9.60	-40.90	-25	15.90
5135.00	50.22	V	-52.4	1.50	9.60	-44.30	-25	19.30

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
N12_ ANT3								
Low Channel								
958.0	32.46	H	-64.0	1.36	0.0	-65.36	-13	52.36
958.0	33.15	V	-60.9	1.36	0.0	-62.26	-13	49.26
1403.00	45.59	H	-62.1	0.80	7.90	-55.00	-13	42.00
1403.00	45.22	V	-63.2	0.80	7.90	-56.10	-13	43.10
2104.50	49.56	H	-57.7	1.00	8.30	-50.40	-13	37.40
2104.50	50.40	V	-57.4	1.00	8.30	-50.10	-13	37.10
2806.00	46.10	H	-60.5	1.20	9.20	-52.50	-13	39.50
2806.00	45.75	V	-60.6	1.20	9.20	-52.60	-13	39.60
Middle Channel								
951.4	32.53	H	-64.0	1.36	0.0	-65.36	-13	52.36
951.4	33.31	V	-60.7	1.36	0.0	-62.06	-13	49.06
1415	46.23	H	-61.5	0.80	7.90	-54.40	-13	41.40
1415	45.68	V	-62.7	0.80	7.90	-55.60	-13	42.60
2122.5	50.05	H	-57.3	1.00	8.30	-50.00	-13	37.00
2122.5	51.11	V	-56.7	1.00	8.30	-49.40	-13	36.40
2830	46.75	H	-59.8	1.20	9.20	-51.80	-13	38.80
2830	45.78	V	-60.5	1.20	9.20	-52.50	-13	39.50
High Channel								
956.8	32.60	H	-63.9	1.36	0.0	-65.26	-13	52.26
956.8	33.42	V	-60.6	1.36	0.0	-61.96	-13	48.96
1427.00	47.20	H	-60.5	0.80	7.90	-53.40	-13	40.40
1427.00	46.30	V	-62.1	0.80	7.90	-55.00	-13	42.00
2140.50	50.74	H	-56.6	1.00	8.30	-49.30	-13	36.30
2140.50	51.79	V	-56.0	1.00	8.30	-48.70	-13	35.70
2854.00	47.27	H	-59.0	1.20	9.00	-51.20	-13	38.20
2854.00	46.23	V	-59.8	1.20	9.00	-52.00	-13	39.00
N38_ ANT5								
Low Channel								
959.0	33.13	H	-63.4	1.36	0.0	-64.76	-25	39.76
959.0	32.87	V	-61.2	1.36	0.0	-62.56	-25	37.56
5150.00	47.68	H	-55.4	1.60	9.70	-47.30	-25	22.30
5150.00	48.36	V	-54.3	1.60	9.70	-46.20	-25	21.20
Middle Channel								
951.3	33.30	H	-63.2	1.36	0.0	-64.56	-25	39.56
951.3	32.93	V	-61.1	1.36	0.0	-62.46	-25	37.46
5190.00	47.24	H	-55.8	1.60	9.70	-47.70	-25	22.70
5190.00	46.82	V	-55.8	1.60	9.70	-47.70	-25	22.70
High Channel								
955.5	33.45	H	-63.1	1.36	0.0	-64.46	-25	39.46
955.5	33.06	V	-61.0	1.36	0.0	-62.36	-25	37.36
5230.00	48.55	H	-54.5	1.60	9.70	-46.40	-25	21.40
5230.00	49.28	V	-53.4	1.60	9.70	-45.30	-25	20.30

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
N41_ ANT5								
Low Channel								
955.5	32.12	H	-64.4	1.36	0.0	-65.76	-25	40.76
955.5	32.34	V	-61.7	1.36	0.0	-63.06	-25	38.06
5002.20	48.72	H	-54.6	1.50	9.80	-46.30	-25	21.30
5002.20	49.53	V	-53.1	1.50	9.80	-44.80	-25	19.80
Middle Channel								
957.8	32.36	H	-64.1	1.36	0.0	-65.46	-25	40.46
957.8	32.44	V	-61.6	1.36	0.0	-62.96	-25	37.96
5186.00	54.72	H	-48.3	1.60	9.70	-40.20	-25	15.20
5186.00	53.89	V	-48.8	1.60	9.70	-40.70	-25	15.70
High Channel								
952.4	32.54	H	-64.0	1.36	0.0	-65.36	-25	40.36
952.4	32.67	V	-61.4	1.36	0.0	-62.76	-25	37.76
5370.00	54.83	H	-48.0	1.70	10.50	-39.20	-25	14.20
5370.00	53.64	V	-49.1	1.70	10.50	-40.30	-25	15.30
N66_ ANT5								
Low Channel								
953.4	31.82	H	-64.7	1.36	0.0	-66.06	-13	53.06
953.4	32.66	V	-61.4	1.36	0.0	-62.76	-13	49.76
3425.00	47.52	H	-58.4	1.30	9.90	-49.80	-13	36.80
3425.00	46.89	V	-58.8	1.30	9.90	-50.20	-13	37.20
Middle Channel								
959.0	32.17	H	-64.3	1.36	0.0	-65.66	-13	52.66
959.0	32.80	V	-61.3	1.36	0.0	-62.66	-13	49.66
3490.00	46.43	H	-59.5	1.30	10.50	-50.30	-13	37.30
3490.00	45.52	V	-60.1	1.30	10.50	-50.90	-13	37.90
High Channel								
954.7	32.54	H	-64.0	1.36	0.0	-65.36	-13	52.36
954.7	33.38	V	-60.7	1.36	0.0	-62.06	-13	49.06
3555.00	47.89	H	-57.8	1.30	10.90	-48.20	-13	35.20
3555.00	48.63	V	-56.8	1.30	10.90	-47.20	-13	34.20

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
N77_1(3450MHz-3550MHz)_ ANT4								
Low Channel								
951.8	33.26	H	-63.2	1.36	0.0	-64.56	-13	51.56
951.8	32.86	V	-61.2	1.36	0.0	-62.56	-13	49.56
6910.00	48.69	H	-49.6	1.90	10.30	-41.20	-13	28.20
6910.00	49.72	V	-48.6	1.90	10.30	-40.20	-13	27.20
Middle Channel								
956.5	33.67	H	-62.8	1.36	0.0	-64.16	-13	51.16
956.5	33.42	V	-60.6	1.36	0.0	-61.96	-13	48.96
7000.00	50.23	H	-47.5	1.90	10.20	-39.20	-13	26.20
7000.00	51.78	V	-46.0	1.90	10.20	-37.70	-13	24.70
High Channel								
952.0	33.94	H	-62.6	1.36	0.0	-63.96	-13	50.96
952.0	33.55	V	-60.5	1.36	0.0	-61.86	-13	48.86
7090.00	51.65	H	-45.7	1.90	10.20	-37.40	-13	24.40
7090.00	52.08	V	-45.4	1.90	10.20	-37.10	-13	24.10
N77_3(3700MHz-3980MHz)_ ANT4								
Low Channel								
951.5	31.45	H	-65.1	1.36	0.0	-66.46	-13	53.46
951.5	32.18	V	-61.9	1.36	0.0	-63.26	-13	50.26
7410.00	48.53	H	-47.8	1.90	10.60	-39.10	-13	26.10
7410.00	47.61	V	-49.0	1.90	10.60	-40.30	-13	27.30
Middle Channel								
953.0	31.88	H	-64.6	1.36	0.0	-65.96	-13	52.96
953.0	32.56	V	-61.5	1.36	0.0	-62.86	-13	49.86
7680.00	45.68	H	-50.1	1.90	10.90	-41.10	-13	28.10
7680.00	46.89	V	-49.3	1.90	10.90	-40.30	-13	27.30
High Channel								
952.8	32.34	H	-64.2	1.36	0.0	-65.56	-13	52.56
952.8	32.79	V	-61.3	1.36	0.0	-62.66	-13	49.66
7950.00	49.56	H	-46.0	1.90	11.10	-36.80	-13	23.80
7950.00	50.29	V	-45.7	1.90	11.10	-36.50	-13	23.50

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
N78_1 (3450MHz-3550MHz)_ ANT4								
Low Channel								
953.4	31.33	H	-65.2	1.36	0.0	-66.56	-13	53.56
953.4	32.12	V	-61.9	1.36	0.0	-63.26	-13	50.26
6910.00	45.62	H	-52.6	1.90	10.30	-44.20	-13	31.20
6910.00	46.87	V	-51.5	1.90	10.30	-43.10	-13	30.10
Middle Channel								
957.9	31.48	H	-65.0	1.36	0.0	-66.36	-13	53.36
957.9	32.25	V	-61.8	1.36	0.0	-63.16	-13	50.16
7000.00	44.33	H	-53.4	1.90	10.20	-45.10	-13	32.10
7000.00	45.62	V	-52.2	1.90	10.20	-43.90	-13	30.90
High Channel								
956.1	31.64	H	-64.9	1.36	0.0	-66.26	-13	53.26
956.1	32.55	V	-61.5	1.36	0.0	-62.86	-13	49.86
7090.00	46.62	H	-50.8	1.90	10.20	-42.50	-13	29.50
7090.00	47.54	V	-50.0	1.90	10.20	-41.70	-13	28.70
N78_3 (3700MHz-3800MHz)_ ANT4								
Low Channel								
957.4	33.12	H	-63.4	1.36	0.0	-64.76	-13	51.76
957.4	32.22	V	-61.8	1.36	0.0	-63.16	-13	50.16
7410.00	47.52	H	-48.8	1.90	10.60	-40.10	-13	27.10
7410.00	48.33	V	-48.3	1.90	10.60	-39.60	-13	26.60
Middle Channel								
956.8	33.58	H	-62.9	1.36	0.0	-64.26	-13	51.26
956.8	32.51	V	-61.5	1.36	0.0	-62.86	-13	49.86
7500.00	48.36	H	-47.6	1.90	10.80	-38.70	-13	25.70
7500.00	49.21	V	-47.1	1.90	10.80	-38.20	-13	25.20
High Channel								
952.9	33.68	H	-62.8	1.36	0.0	-64.16	-13	51.16
952.9	33.16	V	-60.9	1.36	0.0	-62.26	-13	49.26
7590.00	50.09	H	-45.8	1.90	11.00	-36.70	-13	23.70
7590.00	51.37	V	-44.9	1.90	11.00	-35.80	-13	22.80

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
DC_5A_n7A (LTE ANT1+NR ANT5)								
Low Channel								
952.4	31.52	H	-65.0	1.36	0.0	-66.36	-25	41.36
952.4	32.15	V	-61.9	1.36	0.0	-63.26	-25	38.26
5005.00	51.89	H	-51.4	1.50	9.80	-43.10	-25	18.10
5005.00	52.13	V	-50.5	1.50	9.80	-42.20	-25	17.20
Middle Channel								
955.2	31.68	H	-64.8	1.36	0.0	-66.16	-25	41.16
955.2	32.31	V	-61.7	1.36	0.0	-63.06	-25	38.06
5070.00	52.02	H	-51.2	1.50	9.60	-43.10	-25	18.10
5070.00	52.66	V	-50.0	1.50	9.60	-41.90	-25	16.90
High Channel								
959.0	31.73	H	-64.8	1.36	0.0	-66.16	-25	41.16
959.0	32.42	V	-61.6	1.36	0.0	-62.96	-25	37.96
5135.00	53.05	H	-50.1	1.50	9.60	-42.00	-25	17.00
5135.00	52.45	V	-50.2	1.50	9.60	-42.10	-25	17.10
DC_5A_n38A (LTE ANT1+NR ANT5)								
Low Channel								
957.8	32.12	H	-64.4	1.36	0.0	-65.76	-25	40.76
957.8	33.26	V	-60.8	1.36	0.0	-62.16	-25	37.16
5150.00	51.78	H	-51.3	1.60	9.70	-43.20	-25	18.20
5150.00	52.68	V	-50.0	1.60	9.70	-41.90	-25	16.90
Middle Channel								
955.3	32.34	H	-64.2	1.36	0.0	-65.56	-25	40.56
955.3	33.51	V	-60.5	1.36	0.0	-61.86	-25	36.86
5190.00	51.88	H	-51.2	1.60	9.70	-43.10	-25	18.10
5190.00	52.64	V	-50.0	1.60	9.70	-41.90	-25	16.90
High Channel								
958.5	32.63	H	-63.9	1.36	0.0	-65.26	-25	40.26
958.5	33.70	V	-60.4	1.36	0.0	-61.76	-25	36.76
5230.00	52.59	H	-50.5	1.60	9.70	-42.40	-25	17.40
5230.00	53.84	V	-48.8	1.60	9.70	-40.70	-25	15.70

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
DC_5A_n41A (LTE ANT1+NR ANT5)								
Low Channel								
956.8	30.73	H	-65.8	1.36	0.0	-67.16	-25	42.16
956.8	31.86	V	-62.2	1.36	0.0	-63.56	-25	38.56
5002.20	51.77	H	-51.5	1.50	9.80	-43.20	-25	18.20
5002.20	52.43	V	-50.2	1.50	9.80	-41.90	-25	16.90
Middle Channel								
957.1	31.22	H	-65.3	1.36	0.0	-66.66	-25	41.66
957.1	32.06	V	-62.0	1.36	0.0	-63.36	-25	38.36
5186.00	53.82	H	-49.2	1.60	9.70	-41.10	-25	16.10
5186.00	52.67	V	-50.0	1.60	9.70	-41.90	-25	16.90
High Channel								
954.4	31.71	H	-64.8	1.36	0.0	-66.16	-25	41.16
954.4	32.33	V	-61.7	1.36	0.0	-63.06	-25	38.06
5370.00	53.91	H	-48.9	1.70	10.50	-40.10	-25	15.10
5370.00	52.84	V	-49.9	1.70	10.50	-41.10	-25	16.10
DC_5A_n66A (LTE ANT1+NR ANT5)								
Low Channel								
955.3	33.21	H	-63.3	1.36	0.0	-64.66	-13	51.66
955.3	30.88	V	-63.2	1.36	0.0	-64.56	-13	51.56
3425	48.96	H	-57.0	1.30	9.90	-48.40	-13	35.40
3425	50.28	V	-55.4	1.30	9.90	-46.80	-13	33.80
Middle Channel								
952.0	33.54	H	-63.0	1.36	0.0	-64.36	-13	51.36
952.0	31.13	V	-62.9	1.36	0.0	-64.26	-13	51.26
3490.00	48.62	H	-57.3	1.30	10.50	-48.10	-13	35.10
3490.00	49.51	V	-56.1	1.30	10.50	-46.90	-13	33.90
High Channel								
951.8	33.69	H	-62.8	1.36	0.0	-64.16	-13	51.16
951.8	31.40	V	-62.7	1.36	0.0	-64.06	-13	51.06
3555.00	49.65	H	-56.0	1.30	10.90	-46.40	-13	33.40
3555.00	50.07	V	-55.4	1.30	10.90	-45.80	-13	32.80

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
DC_5A_n77A (LTE ANT1+NR ANT4)								
Low Channel								
955.7	32.82	H	-63.7	1.36	0.0	-65.06	-13	52.06
955.7	33.10	V	-61.0	1.36	0.0	-62.36	-13	49.36
6910	47.16	H	-49.2	1.9	10.7	-40.4	-13	27.4
6910	45.07	V	-51.5	1.9	10.7	-42.7	-13	29.7
Middle Channel								
959.2	32.94	H	-63.6	1.36	0.0	-64.96	-13	51.96
959.2	33.23	V	-60.8	1.36	0.0	-62.16	-13	49.16
7000	46.39	H	-49.4	1.9	10.6	-40.7	-13	27.7
7000	45.03	V	-51.1	1.9	10.6	-42.4	-13	29.4
High Channel								
954.3	33.11	H	-63.4	1.36	0.0	-64.76	-13	51.76
954.3	33.42	V	-60.6	1.36	0.0	-61.96	-13	48.96
7090	47.52	H	-48	1.9	10.6	-39.3	-13	26.3
7090	45.66	V	-50.3	1.9	10.6	-41.6	-13	28.6
DC_5A_n78A (LTE ANT1+NR ANT4)								
Low Channel								
956.9	30.50	H	-66.0	1.36	0.0	-67.36	-13	54.36
956.9	33.73	V	-60.3	1.36	0.0	-61.66	-13	48.66
6910	48.67	H	-47.6	1.9	10.7	-38.8	-13	25.8
6910	49.57	V	-47	1.9	10.7	-38.2	-13	25.2
Middle Channel								
957.0	30.98	H	-65.5	1.36	0.0	-66.86	-13	53.86
957.0	33.87	V	-60.2	1.36	0.0	-61.56	-13	48.56
7000	46.83	H	-49.1	1.9	10.6	-40.4	-13	27.4
7000	50.63	V	-45.7	1.9	10.6	-37	-13	24
High Channel								
952.5	31.26	H	-65.2	1.36	0.0	-66.56	-13	53.56
952.5	34.02	V	-60.0	1.36	0.0	-61.36	-13	48.36
7090	49.62	H	-46.3	1.9	10.6	-37.6	-13	24.6
7090	50.33	V	-45.9	1.9	10.6	-37.2	-13	24.2

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
DC_7A-n5A (LTE ANT5+NR ANT1)								
Low Channel								
955.6	32.25	H	-65.26	1.36	0	-66.62	-13	53.62
955.6	33.64	V	-60.15	1.36	0	-61.51	-13	48.51
1653.00	51.33	H	-56.2	0.90	8.60	-48.50	-13	35.50
1653.00	50.62	V	-57.5	0.90	8.60	-49.80	-13	36.80
2479.50	48.97	H	-58.4	1.10	8.80	-50.70	-13	37.70
2479.50	49.63	V	-57.5	1.10	8.80	-49.80	-13	36.80
3306.00	47.54	H	-58.4	1.30	8.80	-50.90	-13	37.90
3306.00	47.62	V	-58.1	1.30	8.80	-50.60	-13	37.60
Middle Channel								
956.4	31.14	H	-64.9	1.36	0	-66.26	-13	53.26
956.4	33.75	V	-59.75	1.36	0	-61.11	-13	48.11
1673.00	51.38	H	-56.2	0.90	8.60	-48.50	-13	35.50
1673.00	50.87	V	-57.3	0.90	8.60	-49.60	-13	36.60
2509.50	49.48	H	-57.9	1.10	8.80	-50.20	-13	37.20
2509.50	49.89	V	-57.2	1.10	8.80	-49.50	-13	36.50
3346.00	47.85	H	-58.1	1.30	8.80	-50.60	-13	37.60
3346.00	47.90	V	-57.8	1.30	8.80	-50.30	-13	37.30
High Channel								
955.1	31.52	H	-64.93	1.36	0	-66.29	-13	53.29
955.1	33.87	V	-59.97	1.36	0	-61.33	-13	48.33
1693.00	52.49	H	-55.1	0.90	8.60	-47.40	-13	34.40
1693.00	52.00	V	-56.1	0.90	8.60	-48.40	-13	35.40
2539.50	49.77	H	-57.6	1.10	8.80	-49.90	-13	36.90
2539.50	51.25	V	-55.9	1.10	8.80	-48.20	-13	35.20
3386.00	48.07	H	-57.9	1.30	9.90	-49.30	-13	36.30
3386.00	48.83	V	-56.8	1.30	9.90	-48.20	-13	35.20

Note:
Absolute Level = Reading Level + Substituted Factor
Substituted Factor contains: Substituted Level - Cable loss+ Antenna Gain
Margin = Limit -Absolute Level

FCC§ 22.917 (a); §27.53(g)(h)(l)(m)(n) - BAND EDGES

Applicable Standard

According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

According to FCC §27.53 (g) , For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC §27.53 (h), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

According to FCC §27.53(l)(2), For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

According to FCC §27.53 (m), For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5MHz.

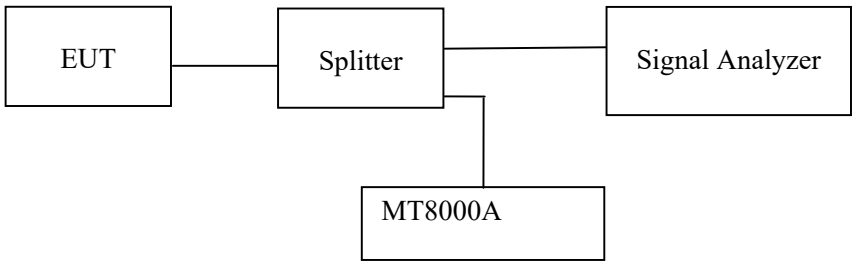
According to FCC §27.53(n)(2), For mobile operations in the 3450 – 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed − 13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Test Procedure

ANSI C63.26-2015 Section 5.7

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency



Test Data

Environmental Conditions

Temperature:	24.5~25.8 ℃
Relative Humidity:	44~60%
ATM Pressure:	101kPa

The testing was performed by Jim Cheng from 2024-04-27 to 2024-05-18.

EUT operation mode: Transmitting (Worst case record in the reports)

Test Result: Pass

Please refer to the Appendix H1& Appendix H2 for band edges.

FCC § 2.1055; § 22.355; §27.54 - FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055, § 22.355; §27.54

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile > 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §§27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

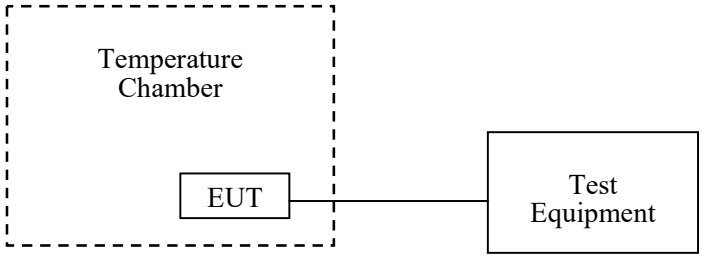
Test Procedure

ANSI C63.26-2015 Section 5.6

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Data

Environmental Conditions

Temperature:	24.5~25.8 ℃
Relative Humidity:	44~60%
ATM Pressure:	101kPa

The testing was performed by Jim Cheng from 2024-04-25 to 2024-05-13.

EUT operation mode: Transmitting (Worst case record in the reports)

Test Result: Pass

Please refer to the Appendix I1~I13 for frequency stability.

EUT PHOTOGRAPHS

Please refer to the attachment 2402S71481E-RF-EXP External photo and 2402S71481E-RF-INP Internal photo

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401S71481E-RF Test Setup photo.

******* END OF REPORT *******