

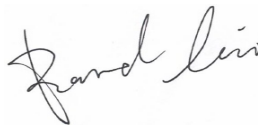
FCC PART 27
FCC PART 22H, PART 24E
TEST REPORT

For

Tersus GNSS Inc.

Rm 601, Bldg E2, No. 88, Jinjihu Ave, Suzhou, China

FCC ID: 2AMDJ-TS21

Report Type: Original Report	Product Name: GNSS Receiver
Report Number:	RSHA250514001-00F
Report Date:	2026-01-23
Reviewed By:	Bard Liu 
Approved By:	Kyle Xu 
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu Province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSHA250514001-00F	R1V1	2026-01-23	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Tersus GNSS Inc.
Tested Model:	TS21
Series Model:	TS20
Model Difference:	TS21 has two cameras, TS20 has one camera.
Product Name:	GNSS Receiver
Power Supply:	DC 5V from adapter or DC7.2V from battery
Maximum Conducted Output Power:	LTE: Band 2: 22.40 dBm; Band 4: 24.15dBm; Band 5: 24.39 dBm; Band 7: 22.53 dBm Band 25: 24.72 dBm; Band 38: 22.03 dBm; Band 41: 22.56 dBm
RF Function:	LTE
Operating Band/Frequency:	LTE Band 2: 1850-1910 MHz(TX), 1930-1990 MHz(RX) LTE Band 4: 1710-1755 MHz(TX), 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX), 869-894 MHz(RX) LTE Band 7: 2500-2570 MHz(TX), 2620-2690 MHz(RX) LTE Band 25: 1850-1915 MHz(TX), 1930-1995 MHz(RX) LTE Band 38: 2570-2620 MHz(TX), 2570-2620 MHz(RX) LTE Band 41: 2496-2690 MHz(TX), 2496-2690 MHz(RX)
Modulation Type:	LTE: QPSK, 16QAM
Antenna Type:	PCB Antenna
Sample/EUT Status:	Good condition
★Maximum Antenna Gain :	LTE Band 2: 1.93 dBi; LTE Band 4: -2.87 dBi, LTE Band 5: -0.03 dBi; LTE Band 7: 0.74 dBi, LTE Band 25: 1.93 dBi; LTE Band 38: 0.74 dBi; LTE Band 41: 0.74 dBi

Adapter Information:

Model: QL015-0503000U1

Input: 100-240V~50/60Hz, 0.5A

Output: 5.0V, 3.0A

Note: The maximum antenna gain is provided by the applicant, after pre-scan, the model TS21 is the worst, only the worst data is recorded in the report.

All measurement and test data in this report was gathered from production sample serial number: RSHA250514001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-05-14.)

Objective

This type approval report is prepared for *Tersus GNSS Inc.* in accordance with Part 2, Part 22-Subpart H and Part 24-Subpart E, Part 27 of the Federal Communication Commission's rules.

The objective is to determine the compliance of 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, Sub-Part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Part 27 – Miscellaneous wireless communications services

Applicable Standards: ANSI C63.26-2015.

Measurement Uncertainty

Item		Uncertainty
RF Frequency		0.082×10^{-7}
RF output power, conducted		0.73dB
RF conducted test with spectrum		0.9dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	5.91dB
	1GHz~6GHz	4.68dB
	6GHz~18GHz	4.92dB
	18GHz~40GHz	5.21dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%
Supply voltages		$\pm 0.4\%$

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to ANSI C63.26-2015.

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

Channel List

Frequency Band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	Middle	High
LTE Band 2	1.4	1850.7	1880.0	1909.3
	3	1851.5	1880.0	1908.5
	5	1852.5	1880.0	1907.5
	10	1855.0	1880.0	1905.0
	15	1857.5	1880.0	1902.5
	20	1860.0	1880.0	1900.0
LTE Band 4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
LTE Band 5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
LTE Band 7	5	2502.5	2535.0	2567.5
	10	2505.0	2535.0	2565.0
	15	2507.5	2535.0	2562.5
	20	2510.0	2535.0	2560.0

Frequency Band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	Middle	High
LTE Band 25	1.4	1850.7	1882.5	1914.3
	3	1851.5	1882.5	1913.5
	5	1852.5	1882.5	1912.5
	10	1855.0	1882.5	1910.0
	15	1857.5	1882.5	1907.5
	20	1860.0	1882.5	1905.0
LTE Band 38	5	2572.5	2595.0	2617.5
	10	2575.0	2595.0	2615.0
	15	2577.5	2595.0	2612.5
	20	2580.0	2595.0	2610.0
LTE Band 41	5	2498.5	2593.0	2687.5
	10	2501.0	2593.0	2685.0
	15	2503.5	2593.0	2682.5
	20	2506.0	2593.0	2680.0

Equipment Modifications

No modifications were made to the EUT.

Support Equipment List and Details

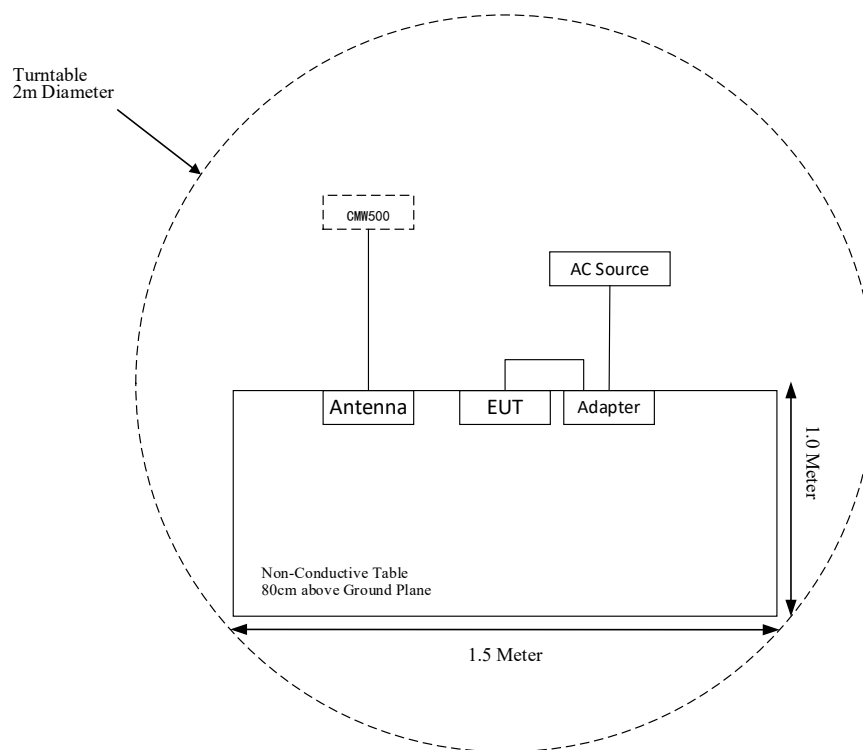
Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478

External I/O Cable

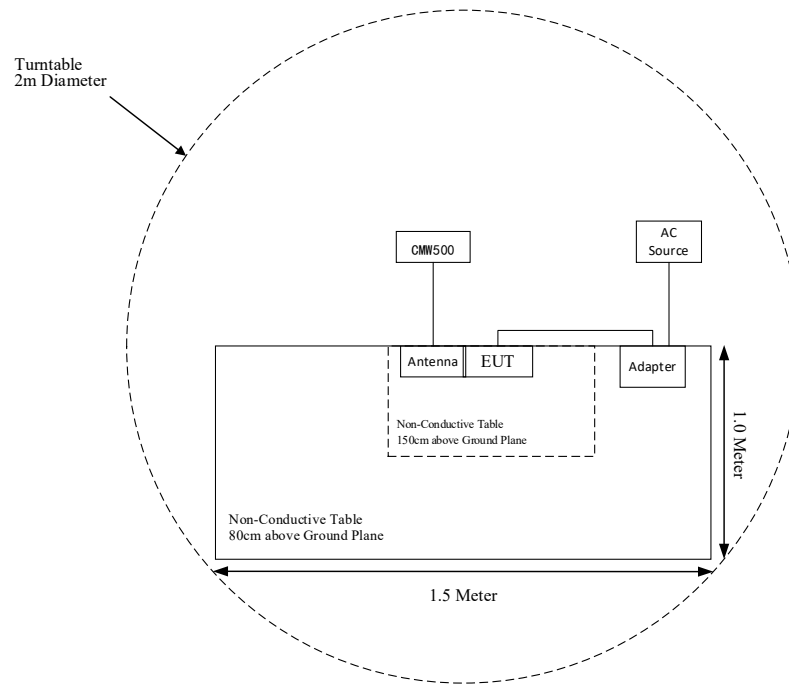
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	EUT	Adapter
Power Cable 2	1.0	Adapter	AC Source

Block Diagram of Test Setup

For Radiated Emissions(Below 1GHz):



For Radiated Emissions (Above 1 GHz):



TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2025-04-09	2026-04-08
Keysight	Signal Generator	N5183A	MY47420304	2025-04-08	2026-04-07
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Sunol Sciences	Hybrid Antenna	JB3	A090314-2	2024-10-29	2027-10-28
Sonoma Instrument	Amplifier	310N	171205	2025-04-09	2026-04-08
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-7	007	2025-04-08	2026-04-07
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2025-04-09	2026-04-08
Radiated Emission Test (Chamber #2)					
Keysight	Signal Generator	N5183A	MY47420304	2025-04-08	2026-04-07
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2024-11-03	2027-11-02
ETS-LINDGREN	Horn Antenna	3115	6229	2025-01-04	2026-01-05
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
ETS-LINDGREN	Horn Antenna	3116	84159	2024-12-08	2025-12-07
A.H.Systems,inc	Amplifier	PAM-0118P	512	2025-04-09	2026-04-08
EM Electronics Corporation	Amplifier	EM18G40G	060726	2025-04-09	2026-04-08
Wi	Band reject filter	SN1	WRCGV5-804-824-849-869-30SS	2025-04-08	2026-04-07
Wi	Band reject filter	SN1	WRCGV6-1830-1850-1910-1930-30SS	2025-04-08	2026-04-07
Wi	Band reject filter	SN1	WRCGV8-1695-1710-1755-1770-30SS	2025-04-08	2026-04-07
Wi	Band reject filter	SN3	WRCJV8-2450-2500-2570-2620-40SS	2025-04-08	2026-04-07
BACL	Band reject filter	SN2	WRCJV8-2436-2496-2690-2750-25SS	2025-04-08	2026-04-07
Wi	Band reject filter	SN1	WRCJV8-2550-2570-2620-2640-30SS	2025-04-08	2026-04-07

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2025-04-09	2026-04-08
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2025-04-09	2026-04-08
BACL	Temperature & Humidity Chamber	BTH-150	30023	2025-04-09	2026-04-08
EAST	Regulated DC Power Supply	MCH-303D-II	14070562	N/A	N/A
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2025-04-09	2026-04-08
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
Eastsheep	Attenuator	2W-N-JK-18G	20dB-01	2025-04-08	2026-04-07
MACOM	Power Splitter	2090-6214-00	96341	2025-04-09	2026-04-08
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Unknown	RF Cable	RF Cable C01	C01	Each Time	N/A

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

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §2.1091	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	Compliant
§ 2.1046; § 22.913 (a); §24.232 (c); §27.50 (d) (h)	RF Output Power	Compliant
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049, §22.917, §22.905 & §24.238, §27.53	Occupied Bandwidth	Compliant
§ 2.1051; § 22.917 (a); § 24.238 (a); §27.53 (h) (m);	Spurious Emissions at Antenna Terminal	Compliant
§ 2.1053; § 22.917 (a); § 24.238 (a) & §27.53 (h) (m)	Spurious Radiated Emissions	Compliant
§ 22.917 (A); § 24.238 (a); §27.53 (h) (m)	Band Edge	Compliant
§ 2.1055; §2.1055; §22.355; §24.235; §27.54	Frequency stability	Compliant

FCC §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E], [H] or S (minutes)
0.3- 3.0	614	1.63	(100)*	6
3.0 - 30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:**General Population/Uncontrolled**

Mode	Frequency Range (MHz)	Antenna Gain		Tune-up Output Power★		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)	MPE ratio
		(dBi)	(numeric)	(dBm)	(mW)				
2.4G Wi-Fi	2412-2462	1.33	1.36	14.0	25.12	20	0.0068	1.00	0.0068
BT	2402-2480	1.33	1.36	9.0	7.94	20	0.0021	1.00	0.0021
5G Wi-Fi	5150-5250	-1.32	0.74	8.0	6.31	20	0.0009	1.00	0.0009
	5725-5850	-2.61	0.55	11.0	12.59	20	0.0014	1.00	0.0014
LTE band 2	1850-1910	1.93	1.56	22.5	177.83	20	0.0552	1.0	0.0552
LTE band 4	1710-1755	-2.87	0.52	24.5	281.84	20	0.0292	1.0	0.0292
LTE band 5	824-849	-0.03	0.99	24.5	281.84	20	0.0557	0.5493	0.1014
LTE band 7	2500-2570	0.74	1.19	23.0	199.53	20	0.0472	1.0	0.0472
LTE band 25	1850-1915	1.93	1.56	25.0	316.23	20	0.0981	1.0	0.0981
LTE band 38	2570-2620	0.74	1.19	22.5	177.83	20	0.0421	1.0	0.0421
LTE band 41	2496-2690	0.74	1.19	23.0	199.53	20	0.0472	1.0	0.0472

Occupational/Controlled

Mode	Frequency Range (MHz)	Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)	MPE ratio
		(dBi)	(numeric)	(dBm)	(mW)				
UHF	410-470	4.29	2.69	33.00	1995.26	20	1.0658	1.3667	0.7798

(1) The target output powers are all declared by the Manufacturer.

(2) Wi-Fi, BT, WWAN and UHF can transmit simultaneously, the worst condition is as below:

$$\sum_i \frac{S_i}{S_{Limit,i}} = 0.0068 + 0.0021 + 0.1014 + 0.7798 = 0.8901 < 1.0$$

Result: The device meet FCC MPE at 20 cm distance.

FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E, Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC §2.1046; § 22.913 (a); §24.232 (c); §27.50 (d) (h) - RF OUTPUT POWER**Applicable Standards**

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts (38.45dBm).

According to FCC §2.1046 and §24.232 (c), mobile and portable stations are limited to 2 watts (33dBm) EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(d), the maximum EIRP must not exceed 1Watts (30dBm) for 1710-1780MHz.

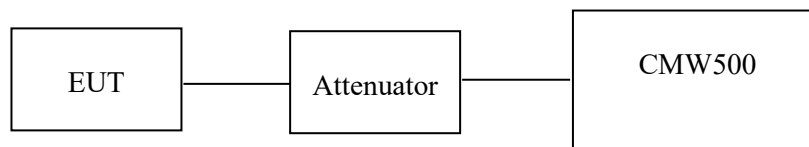
According to §27.50(h) (2), Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to FCC §2.1046, The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw)

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

Test Procedure***Conducted method:***

The RF output of the transmitter was connected to the CMW500 through sufficient attenuation.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See appendix A

FCC §2.1049, § 22.917, §22.905 & §24.238, §27.53 - OCCUPIED BANDWIDTH

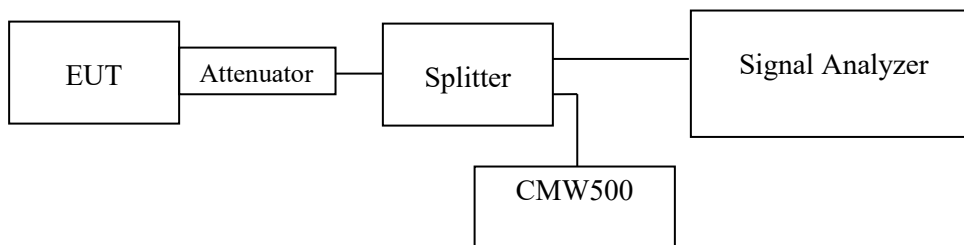
Applicable Standards

FCC 47 §2.1049, §22.917, §22.905 & §24.238, §27.53.

Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation. The 26 dB & 99% bandwidth was recorded.

Note: The 15dB is the Insertion loss of the RF cable, Power Splitter, Attenuator, which was offset into the Spectrum Analyzer.



Note: Offset (15dB) = Attenuator (10dB) + Splitter (4.5dB) + Cable Loss (0.5dB)

Test Data: See Appendix B

FCC § 2.1051; § 22.917 (a); § 24.238 (a); §27.53 (h) (m); - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standards

FCC §2.1051, § 22.917(a), §24.238(a), §27.53 (h) (m).

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

According to §22.917(a), 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.

24.238 (a) Out of band emissions. 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.

27.53 (h) AWS emission limits —

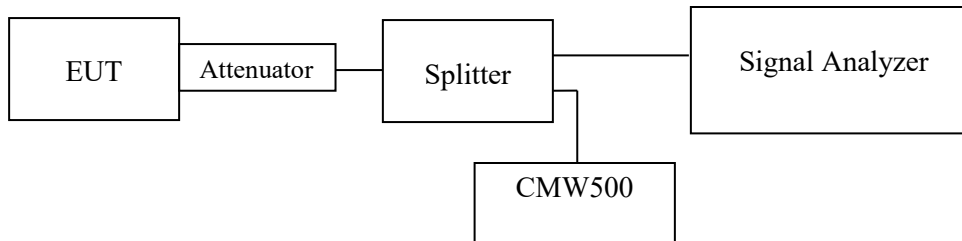
(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

27.53m(4) 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 than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Test Procedure

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 100 kHz for below 1GHz & 1MHz for above 1GHz. sufficient scans were taken to show any out of band emissions up to 10th harmonic.

Note: The 15dB is the Insertion loss of the RF cable, Power Splitter, Attenuator, which was offset into the Spectrum Analyzer.



Note: Offset (15dB) = Attenuator (10dB) + Splitter (4.5dB) + Cable Loss (0.5dB)

Test Data: See Appendix D

FCC § 2.1053; § 22.917 (a); § 24.238 (a) & §27.53 (h) (m); - SPURIOUS RADIATED EMISSIONS

Applicable Standards

FCC § 2.1053, §22.917(a) and § 24.238(a) and § 27.53 (h) (m)

22.917 (a)

Out of band emissions. 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.

24.238 (a)

Out of band emissions. 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.

27.53 (h) AWS emission limits —

(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

27.53m(4) 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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Test Procedure

According to ANSI C63.26-2015 Section 5.5.3:

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 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.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Test Data: See Appendix A

FCC § 22.917 (a); § 24.238 (a); §27.53 (h) (m); - BAND EDGES

Applicable Standards**22.917 (a)**

Out of band emissions. 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.

24.238 (a)

Out of band emissions. 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.

27.53 (h) AWS emission limits —

(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

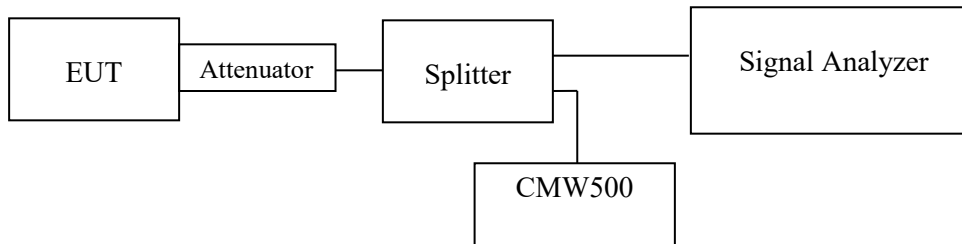
27.53m(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ 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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Test Procedure

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.

Note: The 15dB is the Insertion loss of the RF cable, Power Splitter, Attenuator, which was offset into the Spectrum Analyzer.



Note: Offset1 (15dB) = Attenuator (10dB) + Splitter (4.5dB)+Cable Loss (0.5dB)

Offset2 (17.23dB) = Attenuator (10dB) + Splitter (4.5dB)+Cable Loss (0.5dB)+Duty cycle factor (2.23)

Test Data: See Appendix C

FCC §2.1055; § 2.1055; §22.355; §24.235; §27.54 - FREQUENCY STABILITY**Applicable Standards**

FCC § 2.1055, §22.355, §24.235, §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 §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

According to §27.54 Frequency stability, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

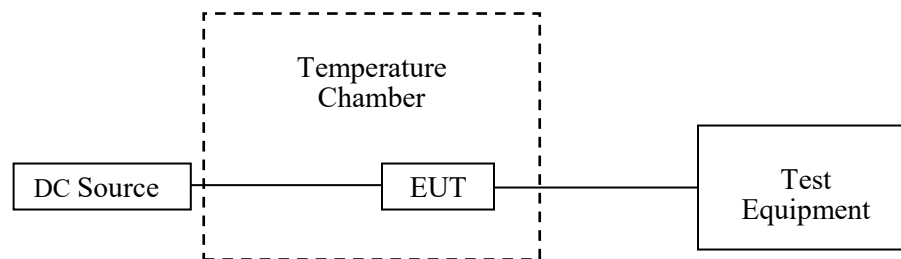
Test Procedure

According to 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.



Note: Offset (11dB) = Attenuator (10dB) + Cable Loss (1dB)

Test Data: See Appendix A

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT E - TEST SETUP PHOTOGRAPHS.

APPENDIX A - TEST DATA

RF OUTPUT POWER

Environmental Conditions & Test Information

Test Date:	2025-06-16 to 2025-06-17
Temperature:	23.4-25.1 °C
Relative Humidity:	48-51 %
ATM Pressure:	101.2-103.2 kPa
Test Engineer:	Neil Zhou

LTE: Please check the APPENDIX E_RF Output power for detail.

Peak-to-average ratio (PAR):

LTE Band 2

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit (dB)
QPSK	1 RB	20M	5.82	6.44	5.02	≤ 13
	100 RB		6.44	5.08	4.43	≤ 13
16-QAM	1 RB		6.12	5.37	4.87	≤ 13
	100 RB		5.14	4.57	6.38	≤ 13
QPSK	1 RB	15M	5.01	5.91	4.92	≤ 13
	75 RB		6.17	6.29	6.36	≤ 13
16-QAM	1 RB		5.90	5.76	4.75	≤ 13
	75 RB		5.44	5.47	6.23	≤ 13
QPSK	1 RB	10M	5.28	6.19	5.62	≤ 13
	50 RB		5.01	4.44	5.39	≤ 13
16-QAM	1 RB		4.97	6.12	4.58	≤ 13
	50 RB		5.20	5.21	5.78	≤ 13
QPSK	1 RB	5M	5.72	5.01	5.96	≤ 13
	25 RB		5.79	6.41	5.77	≤ 13
16-QAM	1 RB		5.51	4.82	5.03	≤ 13
	25 RB		4.93	5.52	6.35	≤ 13
QPSK	1 RB	3M	5.74	4.75	5.71	≤ 13
	15 RB		4.84	5.78	4.69	≤ 13
16-QAM	1 RB		6.32	4.54	6.08	≤ 13
	15 RB		6.13	4.89	5.00	≤ 13
QPSK	1 RB	1.4M	4.67	4.34	4.88	≤ 13
	6 RB		4.56	5.02	5.37	≤ 13
16-QAM	1 RB		5.13	4.52	6.12	≤ 13
	6 RB		5.19	5.08	5.17	≤ 13

LTE Band 4

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	6.33	4.35	5.45	≤ 13
	100 RB		5.96	5.25	5.89	≤ 13
16-QAM	1 RB		5.07	5.34	6.30	≤ 13
	100 RB		4.87	4.55	6.03	≤ 13
QPSK	1 RB	15M	6.38	4.96	4.34	≤ 13
	75 RB		5.98	6.46	4.96	≤ 13
16-QAM	1 RB		4.47	5.20	4.84	≤ 13
	75 RB		5.65	5.91	4.69	≤ 13
QPSK	1 RB	10M	5.44	4.65	4.72	≤ 13
	50 RB		4.72	6.40	4.79	≤ 13
16-QAM	1 RB		5.24	4.32	5.10	≤ 13
	50 RB		5.29	5.37	6.40	≤ 13
QPSK	1 RB	5M	5.22	5.72	4.25	≤ 13
	25 RB		5.90	4.27	5.61	≤ 13
16-QAM	1 RB		5.88	6.07	5.47	≤ 13
	25 RB		4.30	4.92	4.89	≤ 13
QPSK	1 RB	3M	6.07	5.02	4.82	≤ 13
	15 RB		4.51	6.39	6.40	≤ 13
16-QAM	1 RB		5.80	6.13	6.28	≤ 13
	15 RB		5.00	5.96	5.23	≤ 13
QPSK	1 RB	1.4M	5.89	5.20	6.05	≤ 13
	6 RB		6.14	5.53	4.50	≤ 13
16-QAM	1 RB		5.75	6.40	5.82	≤ 13
	6 RB		4.89	5.77	6.40	≤ 13

LTE Band 5

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	10M	5.15	4.96	5.30	≤ 13
	50 RB		6.17	4.90	5.33	≤ 13
16-QAM	1 RB		5.83	5.43	5.70	≤ 13
	50 RB		5.70	5.82	5.21	≤ 13
QPSK	1 RB	5M	4.74	5.58	5.90	≤ 13
	25 RB		6.25	6.16	5.56	≤ 13
16-QAM	1 RB		5.65	6.14	5.96	≤ 13
	25 RB		5.44	6.21	5.17	≤ 13
QPSK	1 RB	3M	5.08	5.12	4.72	≤ 13
	15 RB		4.33	6.06	5.58	≤ 13
16-QAM	1 RB		5.17	5.62	6.00	≤ 13
	15 RB		5.29	6.18	5.61	≤ 13
QPSK	1 RB	1.4M	4.64	6.21	4.64	≤ 13
	6 RB		4.53	4.77	5.22	≤ 13
16-QAM	1 RB		5.94	4.99	5.26	≤ 13
	6 RB		6.00	4.53	6.02	≤ 13

LTE Band 7

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	4.52	5.86	5.35	≤ 13
	100 RB		5.01	5.08	5.71	≤ 13
16-QAM	1 RB		5.63	5.51	5.69	≤ 13
	100 RB		5.42	4.55	5.79	≤ 13
QPSK	1 RB	15M	4.55	4.58	5.09	≤ 13
	75 RB		5.26	5.86	6.32	≤ 13
16-QAM	1 RB		5.51	5.13	5.64	≤ 13
	75 RB		4.82	4.84	5.72	≤ 13
QPSK	1 RB	10M	6.28	5.00	4.57	≤ 13
	50 RB		4.86	5.74	4.98	≤ 13
16-QAM	1 RB		5.19	6.12	5.01	≤ 13
	50 RB		5.70	6.37	4.88	≤ 13
QPSK	1 RB	5M	4.72	4.86	5.05	≤ 13
	25 RB		4.99	5.07	4.72	≤ 13
16-QAM	1 RB		6.38	4.58	4.57	≤ 13
	25 RB		4.92	5.02	4.74	≤ 13

LTE Band 25

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	5.70	6.48	4.61	≤ 13
	100 RB		5.29	4.99	6.08	≤ 13
16-QAM	1 RB		4.46	5.94	5.24	≤ 13
	100 RB		4.91	6.52	5.52	≤ 13
QPSK	1 RB	15M	5.54	5.50	6.17	≤ 13
	75 RB		5.93	4.44	6.19	≤ 13
16-QAM	1 RB		4.73	6.53	5.83	≤ 13
	75 RB		5.43	4.76	4.60	≤ 13
QPSK	1 RB	10M	6.34	5.52	6.35	≤ 13
	50 RB		4.97	6.10	6.47	≤ 13
16-QAM	1 RB		5.62	5.59	4.30	≤ 13
	50 RB		5.95	4.25	4.93	≤ 13
QPSK	1 RB	5M	4.60	4.38	5.55	≤ 13
	25 RB		5.91	5.41	5.85	≤ 13
16-QAM	1 RB		4.45	4.63	5.38	≤ 13
	25 RB		4.80	5.93	5.09	≤ 13
QPSK	1 RB	3M	4.82	4.70	5.57	≤ 13
	15 RB		6.01	4.71	5.68	≤ 13
16-QAM	1 RB		5.83	6.16	4.77	≤ 13
	15 RB		6.37	4.51	4.98	≤ 13
QPSK	1 RB	1.4M	4.75	6.48	4.55	≤ 13
	6 RB		4.77	5.09	5.57	≤ 13
16-QAM	1 RB		6.39	4.25	6.29	≤ 13
	6 RB		5.27	4.39	5.61	≤ 13

LTE Band 38

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	4.36	5.33	5.18	≤ 13
	100 RB		4.30	6.26	4.40	≤ 13
16-QAM	1 RB		6.28	4.72	4.97	≤ 13
	100 RB		4.67	6.44	6.43	≤ 13
QPSK	1 RB	15M	5.79	5.26	6.37	≤ 13
	75 RB		5.35	5.97	6.38	≤ 13
16-QAM	1 RB		6.11	4.72	5.44	≤ 13
	75 RB		5.03	4.60	6.45	≤ 13
QPSK	1 RB	10M	6.33	5.24	5.02	≤ 13
	50 RB		5.20	6.19	4.46	≤ 13
16-QAM	1 RB		6.44	5.26	4.86	≤ 13
	50 RB		4.37	4.44	4.42	≤ 13
QPSK	1 RB	5M	5.64	6.12	5.35	≤ 13
	25 RB		5.56	5.91	6.42	≤ 13
16-QAM	1 RB		6.29	4.64	5.93	≤ 13
	25 RB		5.21	4.64	5.95	≤ 13

LTE Band 41

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	5.62	4.28	5.67	≤ 13
	100 RB		4.39	4.34	4.27	≤ 13
16-QAM	1 RB		4.61	5.41	4.37	≤ 13
	100 RB		5.52	6.12	6.05	≤ 13
QPSK	1 RB	15M	4.69	4.61	6.41	≤ 13
	75 RB		5.82	5.74	6.25	≤ 13
16-QAM	1 RB		4.57	5.02	6.17	≤ 13
	75 RB		5.27	4.75	4.72	≤ 13
QPSK	1 RB	10M	5.09	5.42	5.60	≤ 13
	50 RB		5.98	5.48	6.11	≤ 13
16-QAM	1 RB		6.00	6.24	5.20	≤ 13
	50 RB		5.09	4.51	6.10	≤ 13
QPSK	1 RB	5M	4.72	4.67	6.03	≤ 13
	25 RB		6.02	5.92	5.45	≤ 13
16-QAM	1 RB		6.26	6.33	6.17	≤ 13
	25 RB		6.50	5.43	6.44	≤ 13

OCCUPIED BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2025-06-16 to 2025-06-17
Temperature:	23.4-25.1 °C
Relative Humidity:	48-51 %
ATM Pressure:	101.2-103.2 kPa
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

LTE: Please check the APPENDIX B_Occupied bandwidth for detail.

SPURIOUS EMISSIONS AT ANTENNA TERMINALS**Environmental Conditions & Test Information**

Test Date:	2025-12-03
Temperature:	24.2 °C
Relative Humidity:	33 %
ATM Pressure:	101.5 kPa
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

Test Result: Compliance

LTE: Please check the APPENDIX D_TX spurious for detail.

SPURIOUS RADIATED EMISSIONS**Environmental Conditions & Test Information**

Test Date:	2025-06-16 to 2025-06-17
Temperature:	23.4-25.1 °C
Relative Humidity:	48-51 %
ATM Pressure:	101.2-103.2 kPa
Test Engineer:	Neil Zhou

Test mode: Transmitting (Pre-scan with 1RB of all the bandwidth, and worst case as below)

30 MHz ~ 10 GHz:**LTE Band 5:**

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
168.40	51.20	H	-53.87	0.39	-5.34	-59.60	-13	46.60
168.40	47.32	V	-54.97	0.39	-5.34	-60.70	-13	47.70
1649.40	62.62	H	-50.72	0.84	8.44	-43.12	-13	30.12
1649.40	63.32	V	-50.02	0.84	8.44	-42.42	-13	29.42
16-QAM 1.4MHz Bandwidth Low Channel								
168.40	50.98	H	-54.09	0.39	-5.34	-59.82	-13	46.82
168.40	47.16	V	-55.13	0.39	-5.34	-60.86	-13	47.86
1649.40	63.05	H	-50.29	0.84	8.44	-42.69	-13	29.69
1649.40	63.79	V	-49.55	0.84	8.44	-41.95	-13	28.95
QPSK 1.4MHz Bandwidth Middle Channel								
154.60	51.22	H	-53.61	0.37	-5.95	-59.93	-13	46.93
154.60	46.67	V	-54.40	0.37	-5.95	-60.72	-13	47.72
1673.00	62.87	H	-50.30	0.84	8.48	-42.66	-13	29.66
1673.00	63.47	V	-49.70	0.84	8.48	-42.06	-13	29.06
16-QAM 1.4MHz Bandwidth Middle Channel								
154.60	51.42	H	-53.41	0.37	-5.95	-59.73	-13	46.73
154.60	46.74	V	-54.33	0.37	-5.95	-60.65	-13	47.65
1673.00	62.85	H	-50.32	0.84	8.48	-42.68	-13	29.68
1673.00	63.25	V	-49.92	0.84	8.48	-42.28	-13	29.28
QPSK 1.4MHz Bandwidth High Channel								
174.20	50.71	H	-54.47	0.39	-5.09	-59.95	-13	46.95
174.20	47.43	V	-55.37	0.39	-5.09	-60.85	-13	47.85
1696.60	62.62	H	-50.39	0.84	8.52	-42.71	-13	29.71
1696.60	63.07	V	-49.94	0.84	8.52	-42.26	-13	29.26
16-QAM 1.4MHz Bandwidth High Channel								
174.20	50.68	H	-54.50	0.39	-5.09	-59.98	-13	46.98
174.20	47.26	V	-55.54	0.39	-5.09	-61.02	-13	48.02
1696.60	62.27	H	-50.74	0.84	8.52	-43.06	-13	30.06
1696.60	63.23	V	-49.78	0.84	8.52	-42.10	-13	29.10

30 MHz ~ 20 GHz:**LTE Band 2:**

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
171.50	51.44	H	-53.69	0.39	-5.20	-59.28	-13	46.28
171.50	48.08	V	-54.48	0.39	-5.20	-60.07	-13	47.07
3701.40	57.06	H	-49.90	0.95	9.78	-41.07	-13	28.07
3701.40	58.17	V	-48.79	0.95	9.78	-39.96	-13	26.96
16-QAM 1.4MHz Bandwidth Low Channel								
171.50	51.41	H	-53.72	0.39	-5.20	-59.31	-13	46.31
171.50	48.40	V	-54.16	0.39	-5.20	-59.75	-13	46.75
3701.40	56.64	H	-50.32	0.95	9.78	-41.49	-13	28.49
3701.40	58.20	V	-48.76	0.95	9.78	-39.93	-13	26.93
QPSK 1.4MHz Bandwidth Middle Channel								
168.50	51.57	H	-53.51	0.39	-5.34	-59.24	-13	46.24
168.50	48.18	V	-54.12	0.39	-5.34	-59.85	-13	46.85
3760.00	56.67	H	-50.11	0.95	9.74	-41.32	-13	28.32
3760.00	58.07	V	-48.71	0.95	9.74	-39.92	-13	26.92
16-QAM 1.4MHz Bandwidth Middle Channel								
168.50	51.46	H	-53.62	0.39	-5.34	-59.35	-13	46.35
168.50	48.18	V	-54.12	0.39	-5.34	-59.85	-13	46.85
3760.00	56.90	H	-49.88	0.95	9.74	-41.09	-13	28.09
3760.00	57.86	V	-48.92	0.95	9.74	-40.13	-13	27.13
QPSK 1.4MHz Bandwidth High Channel								
154.90	51.86	H	-52.98	0.37	-5.93	-59.28	-13	46.28
154.90	47.17	V	-53.92	0.37	-5.93	-60.22	-13	47.22
3818.60	56.49	H	-50.10	0.96	9.71	-41.35	-13	28.35
3818.60	57.74	V	-48.85	0.96	9.71	-40.10	-13	27.10
16-QAM 1.4MHz Bandwidth High Channel								
154.90	51.74	H	-53.10	0.37	-5.93	-59.40	-13	46.40
154.90	47.45	V	-53.64	0.37	-5.93	-59.94	-13	46.94
3818.60	56.76	H	-49.83	0.96	9.71	-41.08	-13	28.08
3818.60	57.69	V	-48.90	0.96	9.71	-40.15	-13	27.15

LTE Band 4:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
163.50	51.29	H	-53.70	0.38	-5.56	-59.64	-13	46.64
163.50	47.94	V	-53.91	0.38	-5.56	-59.85	-13	46.85
3421.40	57.68	H	-50.26	0.93	9.82	-41.37	-13	28.37
3421.40	58.84	V	-49.10	0.93	9.82	-40.21	-13	27.21
16-QAM 1.4MHz Bandwidth Low Channel								
163.50	51.33	H	-53.66	0.38	-5.56	-59.60	-13	46.60
163.50	47.76	V	-54.09	0.38	-5.56	-60.03	-13	47.03
3421.40	57.97	H	-49.97	0.93	9.82	-41.08	-13	28.08
3421.40	59.01	V	-48.93	0.93	9.82	-40.04	-13	27.04
QPSK 1.4MHz Bandwidth Middle Channel								
168.70	51.31	H	-53.77	0.39	-5.33	-59.49	-13	46.49
168.70	45.00	V	-57.31	0.45	-2.22	-59.98	-13	46.98
3465.00	57.46	H	-50.29	0.93	9.87	-41.35	-13	28.35
3465.00	58.88	V	-48.87	0.93	9.87	-39.93	-13	26.93
16-QAM 1.4MHz Bandwidth Middle Channel								
168.70	51.35	H	-53.73	0.39	-5.33	-59.45	-13	46.45
168.70	48.12	V	-54.19	0.39	-5.33	-59.91	-13	46.91
3465.00	57.67	H	-50.08	0.93	9.87	-41.14	-13	28.14
3465.00	58.58	V	-49.17	0.93	9.87	-40.23	-13	27.23
QPSK 1.4MHz Bandwidth High Channel								
173.70	51.37	H	-53.80	0.39	-5.11	-59.30	-13	46.30
173.70	48.05	V	-54.71	0.39	-5.11	-60.21	-13	47.21
3508.60	57.42	H	-50.15	0.93	9.89	-41.19	-13	28.19
3508.60	58.65	V	-48.92	0.93	9.89	-39.96	-13	26.96
16-QAM 1.4MHz Bandwidth High Channel								
173.70	51.10	H	-54.07	0.39	-5.11	-59.57	-13	46.57
173.70	48.35	V	-54.41	0.39	-5.11	-59.91	-13	46.91
3508.60	57.29	H	-50.28	0.93	9.89	-41.32	-13	28.32
3508.60	58.33	V	-49.24	0.93	9.89	-40.28	-13	27.28

LTE Band 25:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
159.70	51.57	H	-53.35	0.38	-5.72	-59.45	-13	46.45
159.70	47.78	V	-53.74	0.38	-5.72	-59.84	-13	46.84
3701.40	56.73	H	-50.23	0.95	9.78	-41.40	-13	28.40
3701.40	58.03	V	-48.93	0.95	9.78	-40.10	-13	27.10
16-QAM 1.4MHz Bandwidth Low Channel								
159.70	51.61	H	-53.31	0.38	-5.72	-59.41	-13	46.41
159.70	47.72	V	-53.80	0.38	-5.72	-59.90	-13	46.90
3701.40	57.04	H	-49.92	0.95	9.78	-41.09	-13	28.09
3701.40	58.18	V	-48.78	0.95	9.78	-39.95	-13	26.95
QPSK 1.4MHz Bandwidth Middle Channel								
167.10	51.56	H	-53.49	0.39	-5.40	-59.28	-13	46.28
167.10	47.83	V	-54.34	0.39	-5.40	-60.13	-13	47.13
3765.00	56.52	H	-50.26	0.95	9.74	-41.47	-13	28.47
3765.00	57.73	V	-49.05	0.95	9.74	-40.26	-13	27.26
16-QAM 1.4MHz Bandwidth Middle Channel								
167.10	51.19	H	-53.86	0.39	-5.40	-59.65	-13	46.65
167.10	48.19	V	-53.98	0.39	-5.40	-59.77	-13	46.77
3765.00	56.91	H	-49.87	0.95	9.74	-41.08	-13	28.08
3765.00	57.84	V	-48.94	0.95	9.74	-40.15	-13	27.15
QPSK 1.4MHz Bandwidth High Channel								
161.20	51.34	H	-53.61	0.38	-5.66	-59.65	-13	46.65
161.20	47.58	V	-54.07	0.38	-5.66	-60.11	-13	47.11
3828.60	56.52	H	-50.04	0.96	9.70	-41.30	-13	28.30
3828.60	57.70	V	-48.86	0.96	9.70	-40.12	-13	27.12
16-QAM 1.4MHz Bandwidth High Channel								
161.20	51.59	H	-53.36	0.38	-5.66	-59.40	-13	46.40
161.20	47.94	V	-53.71	0.38	-5.66	-59.75	-13	46.75
3828.60	56.59	H	-49.97	0.96	9.70	-41.23	-13	28.23
3828.60	57.88	V	-48.68	0.96	9.70	-39.94	-13	26.94

30 MHz ~ 26.5 GHz:**LTE Band 7:**

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel								
169.10	43.96	H	-61.13	0.39	-5.31	-66.83	-25	41.83
169.10	39.85	V	-62.50	0.39	-5.31	-68.20	-25	43.20
5005.00	50.69	H	-55.30	1.08	10.30	-46.08	-25	21.08
5005.00	51.61	V	-54.38	1.08	10.30	-45.16	-25	20.16
16-QAM 5MHz Bandwidth Low Channel								
169.10	43.99	H	-61.10	0.39	-5.31	-66.80	-25	41.80
169.10	39.99	V	-62.36	0.39	-5.31	-68.06	-25	43.06
5005.00	50.63	H	-55.36	1.08	10.30	-46.14	-25	21.14
5005.00	51.36	V	-54.63	1.08	10.30	-45.41	-25	20.41
QPSK 5MHz Bandwidth Middle Channel								
164.80	44.00	H	-61.01	0.38	-5.50	-66.89	-25	41.89
164.80	39.75	V	-62.22	0.38	-5.50	-68.10	-25	43.10
5070.00	50.40	H	-55.23	1.09	10.30	-46.02	-25	21.02
5070.00	51.10	V	-54.53	1.09	10.30	-45.32	-25	20.32
16-QAM 5MHz Bandwidth Middle Channel								
164.80	44.10	H	-60.91	0.38	-5.50	-66.79	-25	41.79
164.80	39.53	V	-62.44	0.38	-5.50	-68.32	-25	43.32
5070.00	50.25	H	-55.38	1.09	10.30	-46.17	-25	21.17
5070.00	51.20	V	-54.43	1.09	10.30	-45.22	-25	20.22
QPSK 5MHz Bandwidth High Channel								
157.20	44.64	H	-60.24	0.38	-5.83	-66.45	-25	41.45
157.20	39.50	V	-61.80	0.38	-5.83	-68.01	-25	43.01
5135.00	49.69	H	-55.58	1.10	10.30	-46.38	-25	21.38
5135.00	50.81	V	-54.46	1.10	10.30	-45.26	-25	20.26
16-QAM 5MHz Bandwidth High Channel								
157.20	44.52	H	-60.36	0.38	-5.83	-66.57	-25	41.57
157.20	39.35	V	-61.95	0.38	-5.83	-68.16	-25	43.16
5135.00	50.03	H	-55.24	1.10	10.30	-46.04	-25	21.04
5135.00	50.52	V	-54.75	1.10	10.30	-45.55	-25	20.55

LTE Band 38:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel								
181.40	43.76	H	-61.54	0.40	-4.77	-66.71	-25	41.71
181.40	40.51	V	-62.93	0.40	-4.77	-68.10	-25	43.10
5145.00	49.69	H	-55.52	1.10	10.30	-46.32	-25	21.32
5145.00	50.57	V	-54.64	1.10	10.30	-45.44	-25	20.44
16-QAM 5MHz Bandwidth Low Channel								
181.40	43.70	H	-61.60	0.40	-4.77	-66.77	-25	41.77
181.40	40.63	V	-62.81	0.40	-4.77	-67.98	-25	42.98
5145.00	49.67	H	-55.54	1.10	10.30	-46.34	-25	21.34
5145.00	50.37	V	-54.84	1.10	10.30	-45.64	-25	20.64
QPSK 5MHz Bandwidth Middle Channel								
162.50	44.40	H	-60.57	0.38	-5.60	-66.55	-25	41.55
162.50	39.45	V	-62.32	0.38	-5.60	-68.30	-25	43.30
5190.00	49.63	H	-55.33	1.10	10.30	-46.13	-25	21.13
5190.00	50.41	V	-54.55	1.10	10.30	-45.35	-25	20.35
16-QAM 5MHz Bandwidth Middle Channel								
162.50	44.19	H	-60.78	0.38	-5.60	-66.76	-25	41.76
162.50	39.43	V	-62.34	0.38	-5.60	-68.32	-25	43.32
5190.00	49.38	H	-55.58	1.10	10.30	-46.38	-25	21.38
5190.00	50.17	V	-54.79	1.10	10.30	-45.59	-25	20.59
QPSK 5MHz Bandwidth High Channel								
164.90	44.42	H	-60.59	0.38	-5.49	-66.46	-25	41.46
164.90	39.59	V	-62.39	0.38	-5.49	-68.26	-25	43.26
5235.00	49.12	H	-55.59	1.11	10.30	-46.40	-25	21.40
5235.00	50.31	V	-54.40	1.11	10.30	-45.21	-25	20.21
16-QAM 5MHz Bandwidth High Channel								
164.90	44.16	H	-60.85	0.38	-5.49	-66.72	-25	41.72
164.90	39.53	V	-62.45	0.38	-5.49	-68.32	-25	43.32
5235.00	49.36	H	-55.35	1.11	10.30	-46.16	-25	21.16
5235.00	50.30	V	-54.41	1.11	10.30	-45.22	-25	20.22

30 MHz ~ 27 GHz:**LTE Band 41:**

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel								
172.40	43.95	H	-61.19	0.39	-5.16	-66.74	-25	41.74
172.40	40.10	V	-62.54	0.39	-5.16	-68.09	-25	43.09
4997.00	50.55	H	-55.48	1.08	10.30	-46.26	-25	21.26
4997.00	51.26	V	-54.77	1.08	10.30	-45.55	-25	20.55
16-QAM 5MHz Bandwidth Low Channel								
172.40	43.92	H	-61.22	0.39	-5.16	-66.77	-25	41.77
172.40	40.10	V	-62.54	0.39	-5.16	-68.09	-25	43.09
4997.00	50.55	H	-55.48	1.08	10.30	-46.26	-25	21.26
4997.00	51.41	V	-54.62	1.08	10.30	-45.40	-25	20.40
QPSK 5MHz Bandwidth Middle Channel								
183.90	43.59	H	-61.76	0.40	-4.66	-66.82	-25	41.82
183.90	40.43	V	-63.23	0.40	-4.66	-68.29	-25	43.29
5186.00	49.80	H	-55.19	1.10	10.30	-45.99	-25	20.99
5186.00	50.19	V	-54.80	1.10	10.30	-45.60	-25	20.60
16-QAM 5MHz Bandwidth Middle Channel								
183.90	43.57	H	-61.78	0.40	-4.66	-66.84	-25	41.84
183.90	40.64	V	-63.02	0.40	-4.66	-68.08	-25	43.08
5186.00	49.66	H	-55.33	1.10	10.30	-46.13	-25	21.13
5186.00	50.43	V	-54.56	1.10	10.30	-45.36	-25	20.36
QPSK 5MHz Bandwidth High Channel								
191.20	43.40	H	-62.08	0.41	-4.34	-66.83	-25	41.83
191.20	41.18	V	-63.12	0.41	-4.34	-67.87	-25	42.87
5375.00	48.77	H	-55.17	1.13	10.30	-46.00	-25	21.00
5375.00	49.50	V	-54.44	1.13	10.30	-45.27	-25	20.27
16-QAM 5MHz Bandwidth High Channel								
191.20	43.77	H	-61.71	0.41	-4.34	-66.46	-25	41.46
191.20	40.87	V	-63.43	0.41	-4.34	-68.18	-25	43.18
5375.00	48.36	H	-55.58	1.13	10.30	-46.41	-25	21.41
5375.00	49.40	V	-54.54	1.13	10.30	-45.37	-25	20.37

Note:

1) Absolute Level (dBm) = Submitted Level (dBm) - Cable loss (dB) + Antenna Gain (dBd/dBi)

2) Margin (dB) = Limit (dBm) - Absolute Level (dBm)

BAND EDGES**Environmental Conditions & Test Information**

Test Date:	2025-06-17 to 2026-01-21
Temperature:	22-25.1 °C
Relative Humidity:	48-55 %
ATM Pressure:	100.5-102.5 kPa
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

Test Result: Compliant.

LTE: Please check the APPENDIX C_Band edge for detail.

FREQUENCY STABILITY**Environmental Conditions & Test Information**

Test Date:	2025-06-17 to 2025-06-18
Temperature:	24.5-25.1 °C
Relative Humidity:	48-53 %
ATM Pressure:	101.2-102.5 kPa
Test Engineer:	Neil Zhou

*EUT operation mode: Transmitting***LTE Band 2:**

20.0 MHz Low Channel & High Channel (QPSK)					
Temperature (°C)	Voltage Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	1850.04363	1909.04351	1850	1910
-20		1850.04286	1909.04912	1850	1910
-10		1850.04957	1909.04175	1850	1910
0		1850.04088	1909.04428	1850	1910
10		1850.04330	1909.04417	1850	1910
20		1850.04726	1909.04109	1850	1910
30		1850.04363	1909.04252	1850	1910
40		1850.04583	1909.04109	1850	1910
50		1850.04011	1909.04604	1850	1910
20	6.66	1850.04803	1909.03988	1850	1910
	8.14	1850.05056	1909.04274	1850	1910

20.0 MHz Low Channel & High Channel (16-QAM)					
Temperature (°C)	Voltage Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	1850.04539	1909.04197	1850	1910
-20		1850.04198	1909.04439	1850	1910
-10		1850.04022	1909.04967	1850	1910
0		1850.04539	1909.04197	1850	1910
10		1850.04814	1909.04417	1850	1910
20		1850.04836	1909.03933	1850	1910
30		1850.04968	1909.04472	1850	1910
40		1850.04440	1909.04197	1850	1910
50		1850.04044	1909.04428	1850	1910
20	6.66	1850.04330	1909.04164	1850	1910
	8.14	1850.04176	1909.04351	1850	1910

LTE Band 4:

20.0 MHz Low Channel & High Channel (QPSK)					
Temperature (°C)	Voltage Supplied (V_{DC})	F_L (MHz)	F_H (MHz)	F_L Limit (MHz)	F_H Limit (MHz)
-30	7.4	1710.04077	1754.03999	1710	1755
-20		1710.04946	1754.04307	1710	1755
-10		1710.04627	1754.04736	1710	1755
0		1710.04363	1754.04989	1710	1755
10		1710.04022	1754.04626	1710	1755
20		1710.04396	1754.04582	1710	1755
30		1710.04836	1754.04978	1710	1755
40		1710.04792	1754.04054	1710	1755
50		1710.04924	1754.04736	1710	1755
20	6.66	1710.04715	1754.04043	1710	1755
	8.14	1710.04462	1754.05000	1710	1755

20.0 MHz Low Channel & High Channel (16-QAM)					
Temperature (°C)	Voltage Supplied (V_{DC})	F_L (MHz)	F_H (MHz)	F_L Limit (MHz)	F_H Limit (MHz)
-30	7.4	1710.04583	1754.04890	1710	1755
-20		1710.04055	1754.04879	1710	1755
-10		1710.04231	1754.04362	1710	1755
0		1710.04264	1754.04813	1710	1755
10		1710.04594	1754.04208	1710	1755
20		1710.04198	1754.04626	1710	1755
30		1710.04341	1754.04263	1710	1755
40		1710.04352	1754.04076	1710	1755
50		1710.04176	1754.04263	1710	1755
20	6.66	1710.04814	1754.04989	1710	1755
	8.14	1710.04660	1754.04659	1710	1755

LTE Band 5:

10.0 MHz Middle channel (QPSK)				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	7.4	12	0.01435	2.5
-20		10	0.01195	2.5
-10		14	0.01674	2.5
0		8	0.00956	2.5
10		12	0.01435	2.5
20		13	0.01554	2.5
30		11	0.01315	2.5
40		13	0.01554	2.5
50		14	0.01674	2.5
20	6.66	13	0.01554	2.5
	8.14	12	0.01435	2.5

10.0 MHz Middle channel (16-QAM)				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	7.4	16	0.01913	2.5
-20		18	0.02152	2.5
-10		15	0.01793	2.5
0		14	0.01674	2.5
10		12	0.01435	2.5
20		7	0.00837	2.5
30		14	0.01674	2.5
40		8	0.00956	2.5
50		12	0.01435	2.5
20	6.66	17	0.02032	2.5
	8.14	17	0.02032	2.5

LTE Band 7:

20 MHz Bandwidth Low Channel & High Channel (QPSK)					
Temperature (°C)	Voltage Supplied (V_{DC})	F_L (MHz)	F_H (MHz)	F_L Limit (MHz)	F_H Limit (MHz)
-30	7.4	2500.05089	2569.04626	2500	2570
-20		2500.04154	2569.04956	2500	2570
-10		2500.04253	2569.04230	2500	2570
0		2500.05034	2569.04318	2500	2570
10		2500.05001	2569.04395	2500	2570
20		2500.04935	2569.04362	2500	2570
30		2500.04913	2569.04901	2500	2570
40		2500.04671	2569.03944	2500	2570
50		2500.04165	2569.04934	2500	2570
20	6.66	2500.04374	2569.04417	2500	2570
	8.14	2500.04308	2569.04197	2500	2570

20 MHz Bandwidth Low Channel & High Channel (16-QAM)					
Temperature (°C)	Voltage Supplied (V_{DC})	F_L (MHz)	F_H (MHz)	F_L Limit (MHz)	F_H Limit (MHz)
-30	7.4	2500.05001	2569.04901	2500	2570
-20		2500.04671	2569.04219	2500	2570
-10		2500.04616	2569.04923	2500	2570
0		2500.04473	2569.04263	2500	2570
10		2500.04132	2569.04076	2500	2570
20		2500.04022	2569.04153	2500	2570
30		2500.04880	2569.04032	2500	2570
40		2500.04198	2569.04230	2500	2570
50		2500.04198	2569.03911	2500	2570
20	6.66	2500.04407	2569.04824	2500	2570
	8.14	2500.05089	2569.04417	2500	2570

LTE Band 25:

20.0 MHz Low Channel & High Channel (QPSK)					
Temperature (°C)	Voltage Supplied (V_{DC})	F_L	F_H	F_L Limit	F_H Limit
-30	7.4	1850.04011	1914.04791	1850	1915
-20		1850.04484	1914.04043	1850	1915
-10		1850.04814	1914.03922	1850	1915
0		1850.04781	1914.03955	1850	1915
10		1850.04924	1914.04802	1850	1915
20		1850.04044	1914.03977	1850	1915
30		1850.04957	1914.04890	1850	1915
40		1850.04946	1914.04285	1850	1915
50		1850.04924	1914.04989	1850	1915
20	6.66	1850.04924	1914.04307	1850	1915
	8.14	1850.04759	1914.03988	1850	1915

20.0 MHz Low Channel & High Channel (16-QAM)					
Temperature (°C)	Voltage Supplied (V_{DC})	F_L	F_H	F_L Limit	F_H Limit
-30	7.4	1850.04957	1914.04648	1850	1915
-20		1850.04946	1914.04175	1850	1915
-10		1850.04275	1914.04043	1850	1915
0		1850.04957	1914.04824	1850	1915
10		1850.04869	1914.04208	1850	1915
20		1850.04451	1914.04890	1850	1915
30		1850.04264	1914.04483	1850	1915
40		1850.04055	1914.03944	1850	1915
50		1850.04275	1914.04967	1850	1915
20	6.66	1850.04363	1914.04967	1850	1915
	8.14	1850.04583	1914.04725	1850	1915

LTE Band 38:

20MHz Bandwidth low channel &high channel (QPSK)					
Temperature (°C)	Voltage Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	2570.04011	2619.04604	2570	2620
-20		2570.04132	2619.04549	2570	2620
-10		2570.04825	2619.04923	2570	2620
0		2570.04704	2619.04934	2570	2620
10		2570.04891	2619.03933	2570	2620
20		2570.05012	2619.04208	2570	2620
30		2570.05023	2619.04461	2570	2620
40		2570.04143	2619.04736	2570	2620
50		2570.04902	2619.04923	2570	2620
20	6.66	2570.04979	2619.04494	2570	2620
	8.14	2570.04110	2619.04318	2570	2620

20MHz Bandwidth low channel &high channel (16-QAM)					
Temperature (°C)	Voltage Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	2570.05023	2619.04153	2570	2620
-20		2570.04715	2619.04692	2570	2620
-10		2570.04407	2619.04747	2570	2620
0		2570.05089	2619.03966	2570	2620
10		2570.04902	2619.04417	2570	2620
20		2570.04374	2619.04879	2570	2620
30		2570.04143	2619.04164	2570	2620
40		2570.04957	2619.04021	2570	2620
50		2570.04209	2619.04241	2570	2620
20	6.66	2570.04121	2619.03900	2570	2620
	8.14	2570.04550	2619.04109	2570	2620

LTE Band 41:

20MHz Bandwidth low channel &high channel (QPSK)					
Temperature (°C)	Voltage Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	2496.04242	2689.97857	2496	2690
-20		2496.05001	2689.97230	2496	2690
-10		2496.04286	2689.97472	2496	2690
0		2496.04231	2689.96999	2496	2690
10		2496.04594	2689.97296	2496	2690
20		2496.04539	2689.97758	2496	2690
30		2496.04352	2689.97131	2496	2690
40		2496.04396	2689.97219	2496	2690
50		2496.04594	2689.97769	2496	2690
20	6.66	2496.04110	2689.97912	2496	2690
	8.14	2496.04242	2689.97032	2496	2690

20MHz Bandwidth low channel &high channel (16-QAM)					
Temperature (°C)	Voltage Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	2496.04143	2689.96955	2496	2690
-20		2496.04132	2689.97945	2496	2690
-10		2496.04066	2689.97142	2496	2690
0		2496.04539	2689.97461	2496	2690
10		2496.04913	2689.97494	2496	2690
20		2496.05078	2689.97593	2496	2690
30		2496.04440	2689.97923	2496	2690
40		2496.04638	2689.97087	2496	2690
50		2496.04924	2689.97483	2496	2690
20	6.66	2496.04132	2689.97516	2496	2690
	8.14	2496.04275	2689.97109	2496	2690

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

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