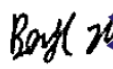


TEST REPORT

FCC ID..... :	2AQRM-A671	
Test Report No..... :	TCT241216E025	
Date of issue..... :	Jan. 10, 2025	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	FOXX Development Inc.	
Address..... :	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA	
Manufacturer's name ... :	FOXX Development Inc.	
Address..... :	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA	
Standard(s)	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part22 FCC CFR Title 47 Part24 FCC CFR Title 47 Part27	
Product Name..... :	Smart Phone	
Trade Mark	FOXXD, FOXX, MIRO	
Model/Type reference..... :	A671	
Rating(s)..... :	Rechargeable Li-ion Battery DC 3.8V Power Adapter: Model: WS-D01605010050 Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1.0A, 5W	
Date of receipt of test item	Dec. 16, 2024	
Date (s) of performance of test..... :	Dec. 16, 2024 ~ Jan. 09, 2025	
Tested by (+signature) ... :	Aaron MO	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name.....:	Smart Phone
Model/Type reference.....:	A671
Sample Number.....:	TCT241216E022-0102
3G Version	WCDMA: R99 HSDPA: Release 5 HSUPA: Release 6
Tx Frequency	GSM/GPRS/EGPRS 850: 824.2MHz ~ 848.8MHz GSM/GPRS/EGPRS 1900: 1850.2MHz ~ 1909.8MHz WCDMA Band V: 826.4MHz ~ 846.6MHz WCDMA Band IV: 1712.4MHz ~ 1752.6MHz WCDMA Band II: 1852.4MHz ~ 1907.6MHz
Rx Frequency	GSM/GPRS/EGPRS 850: 869.2MHz ~ 893.8MHz GSM/GPRS/EGPRS 1900: 1930.2MHz ~ 1989.8MHz WCDMA Band V: 871.4MHz ~ 891.6MHz WCDMA Band IV: 2112.4MHz ~ 2152.6MHz WCDMA Band II: 1932.4MHz ~ 1987.6MHz
Maximum Output Power to Antenna.....:	GSM850: 31.50dBm GSM1900: 27.90dBm GPRS850: 31.40dBm GPRS1900: 27.92dBm EGPRS850: 26.77dBm EGPRS1900: 25.33dBm WCDMA Band V: 21.96dBm WCDMA Band IV: 22.10dBm WCDMA Band II: 21.94dBm
99% Occupied Bandwidth.....:	GSM850: 250KGXW GSM1900: 249KGXW GPRS850 Class 8: 250KGXW GPRS1900 Class 8: 249KGXW EGPRS850 Class 8: 250KG7W EGPRS1900 Class 8: 254KG7W WCDMA Band V RMC 12.2Kbps: 4M25F9W WCDMA Band IV RMC 12.2Kbps: 4M25F9W WCDMA Band II RMC 12.2Kbps: 4M25F9W
Type of Modulation.....:	GSM/GPRS: GMSK EGPRS: 8PSK WCDMA/HSDPA/HSUPA: QPSK
Antenna Type.....:	PIFA Antenna
Antenna Gain.....:	GSM/GPRS/EGPRS 850: -0.77dBi GSM/GPRS/EGPRS 1900: 0.40dBi WCDMA Band V: -0.77dBi WCDMA Band IV: 0.40dBi WCDMA Band II: 0.40dBi

Rating(s).....:	Rechargeable Li-ion Battery DC 3.8V Power Adapter: Model: WS-D01605010050 Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1.0A, 5W
------------------------	---

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

1.3. Operation Frequency

GSM 850		PCS1900	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
128	824.20	512	1850.20
129	824.40	513	1850.40
....			
189	836.40	660	1879.80
190	836.60	661	1880.00
191	836.80	662	1880.20
...	...	...	...
250	848.60	809	1909.60
251	848.80	810	1909.80

WCDMA Band IV		WCDMA Band V		WCDMA Band II	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
1312	1712.4	4132	826.40	9262	1852.40
....		4133	826.60	9263	1852.60
....					
....		4182	836.40	9399	1879.80
1413	1732.6	4183	836.60	9400	1880.00
....		4184	836.80	9401	1880.20
....		...	...	...	...
1513	1752.6	4233	846.60	9538	1907.60

2. Test Result Summary

Requirement	CFR 47 Section	Result
Conducted Output Power	§22.913; §2.1046 §24.232; §27.50(d)	PASS
Peak-to-Average Ratio	§2.1046; §24.232(d) §22.913; §27.50(d)	PASS
Effective Radiated Power	§2.1046; §22.913(a) §24.232; §27.50(d)	PASS
Equivalent Isotropic Radiated Power	§2.1046; §22.913(a) §24.232; §27.50(d)	PASS
Occupied Bandwidth	§2.1049	PASS
Band Edge	§2.1051 §22.917(a) §24.238(a) §27.53(g)	PASS
Conducted Spurious Emission	§2.1051; §22.917 §24.238; §27.53(h)	PASS
Field Strength of Spurious Radiation	§2.1053; §22.917(a) §24.238; §27.53(g)	PASS
Frequency Stability for Temperature & Voltage	§2.1055; §22.355 §24.235; §27.54	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	24.9 °C
Humidity:	48 % RH
Atmospheric Pressure:	1010 mbar
Remark: This product has a built-in rechargeable battery, so in an independent test, the EUT battery was fully-charged.	

Keep the EUT in communication with CMU200 and select channel with modulation All modes and data rates and positions were investigated.
Test modes are chosen to be reported as the worst case configuration below:

Test Mode		
Band	Radiated TCs	Conducted TCs
GSM 850	GSM Link GPRS class 12 Link EGPRS class 12 Link	GSM Link GPRS class 12 Link EGPRS class 12 Link
PCS 1900	GSM Link GPRS class 12 Link EGPRS class 12 Link	GSM Link GPRS class 12 Link EGPRS class 12 Link
WCDMA Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link
WCDMA Band IV	RMC 12.2Kbps Link	RMC 12.2Kbps Link
WCDM Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power. Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission. The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarization. The emissions worst-case (Z axis) are shown in Test Results of the following pages.

3.2. Description of Support Units

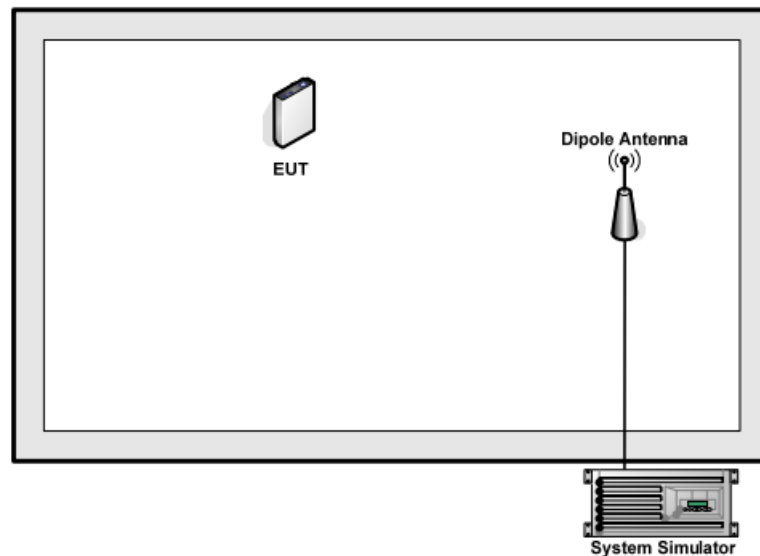
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3.3. Configuration of Tested System



3.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 3 dB and a 5dB attenuator.

Example: *Offset (dB) = RF cable loss (dB) + attenuator factor (dB).*
= 8(dB)

4. Facilities and Accreditations

4.1. Facilities

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

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

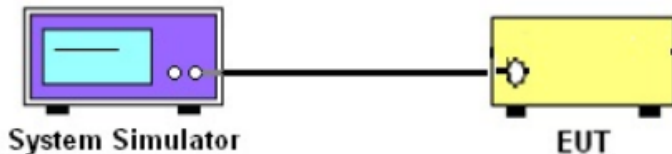
The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB
7	Temperature	$\pm 0.1^{\circ}\text{C}$
8	Humidity	$\pm 1.0\%$

5. Test Results and Measurement Data

5.1. Conducted Output Power Measurement

5.1.1. Test Specification

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b) FCC part 27.50(d)
Test Method:	FCC KDB 971168 D01 v03r01
Operation mode:	Refer to item 3.1
Limits:	GSM 850: 7W PCS 1900: 2W WCDMA Band V: 7W WCDMA Band II: 2W WCDMA Band IV: 1W
Test Setup:	 The diagram illustrates the test setup. On the left is a purple box labeled 'System Simulator' with a screen and two buttons. A black line connects it to a yellow box on the right labeled 'EUT' (Equipment Under Test), which has a single button.
Test Procedure:	1. The transmitter output port was connected to the system simulator. 2. Set EUT at maximum power through system simulator. 3. Select lowest, middle, and highest channels for each band and different modulation. 4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.
Test Result:	PASS

5.1.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	165017	Jan. 31, 2025

5.2. Peak to Average Ratio

5.2.1. Test Specification

Test Requirement:	FCC part 24.232(d); FCC part 22.913; FCC part 27.50(d)
Test Method:	ANSI C63.26:2013
Operation mode:	Refer to item 3.1
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	<pre> graph LR SS[System Simulator] --- PD[Power Divider] SA[Spectrum Analyzer] --- PD PD --- EUT[EUT] </pre>
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03r01 Section 5.7.1. 2. The EUT was connected to spectrum analyzer and system simulator via a power divider. 3. Set EUT to transmit at maximum output power. 4. For GSM/EGPRS operating modes, signal gating is implemented on the spectrum analyzer by triggering from the system simulator. 5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.
Test Result:	PASS

5.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	165017	Jan. 31, 2025
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025

5.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

5.3.1. Test Specification

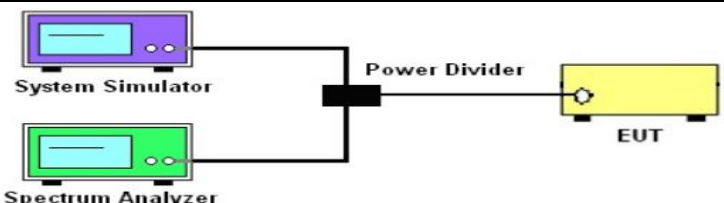
Test Requirement:	FCC part 2.1049
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	N/A
Test Setup:	<pre> graph LR SS[System Simulator] --- PD[Power Divider] SA[Spectrum Analyzer] --- PD PD --- EUT[EUT] </pre>
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03r01 Section 4.2. 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. 3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 4. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold. 5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.
Test Result:	PASS

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	165017	Jan. 31, 2025
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025

5.4. Band Edge and Conducted Spurious Emission Measurement

5.4.1. Test Specification

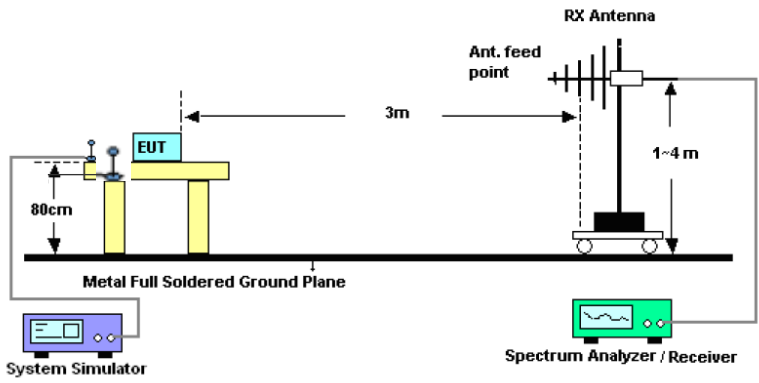
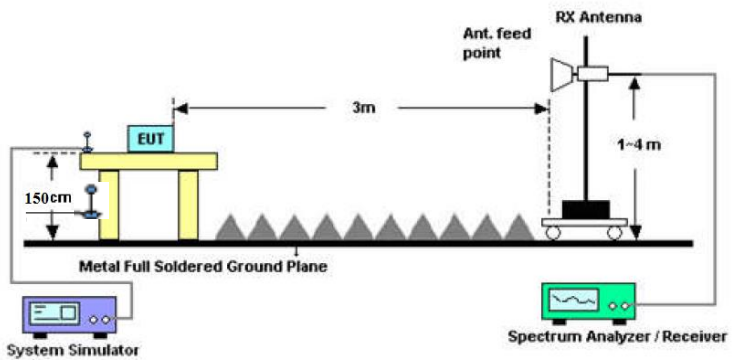
Test Requirement:	FCC part22.917(a) and FCC part24.238(a) FCC part27.53(g)
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	-13dBm
Test Setup:	 The diagram shows a System Simulator (purple box) and a Spectrum Analyzer (green box) connected to a Power Divider (black box). The Power Divider is connected to the EUT (yellow box).
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03r01 Section 6.0. 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement. 4. The band edges of low and high channels for the highest RF powers were measured. 5. The conducted spurious emission for the whole frequency range was taken. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power $P(\text{Watts}) = P(\text{W}) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$
Test Result:	PASS

5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	165017	Jan. 31, 2025
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025

5.5. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

5.5.1. Test Specification

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(c) FCC part 27.50(d)		
Test Method:	FCC KDB 971168 D01v03r01		
Receiver Setup:		GSM/GPRS/EDGE	WCDMA/HSPA
	SPAN	500kHz	10MHz
	RBW	10kHz	100kHz
	VBW	30kHz	300kHz
	Detector	RMS	RMS
	Trace	Average	Average
	Average Type	Power	Power
	Sweep Count	100	100
Limit:	GSM850: 7W ERP PCS1900: 2W EIRP WCDMA Band V: 7W ERP WCDMA Band II: 2W EIRP WCDMA Band IV: 1W EIRP		
Test Setup:	From 30MHz to 1GHz		
	 Above 1GHz 		

Test Procedure:

1. The testing follows FCC KDB 971168 D01v03r01 Section 5.8. and ANSI / TIA-603-D-2010 Section 2.2.17.
2. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01v03.
3. Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment.
4. Replace the transmitter under test with a substitution antenna. The center of the antenna should be at the same location as the center of the antenna under test.
5. Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading.

$$\text{LOSS} = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$$
6. Determine the effective radiated output power at each angular position from the readings in steps 3) and 5) using the following equation:

$$\text{ERP (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$$
7. The maximum ERP is the maximum value determined in the preceding step.
8. Calculating ERP:

$$\text{ERP (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBd)}$$

$$\text{Antenna Gain (dBd)} = \text{Antenna Gain (dBi)} - 2.15$$

$$\text{EIRP} = \text{ERP} + 2.15$$

Test results:

PASS

5.5.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Universal Radio Communication Tester	R&S	CMU200	110188	Jun. 26, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Signal Generator	Agilent	N5173B	MY58108823	Jan. 31, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025
Broadband Antenna	Schwarzbeck	VULB9163	412	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	1201	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/
EMI Test Software	EZ EMC	FA-03A2 RE+	1.1.4.2	/

5.5.3. Test Data

Test Result of ERP

GSM850 (GSM) Radiated Power ERP					
Horizontal Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	H	7.13	21.66	26.64	0.46
836.6	H	6.80	21.54	26.19	0.42
848.8	H	6.95	21.46	26.26	0.42
Vertical Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	V	5.90	21.66	25.41	0.35
836.6	V	6.45	21.54	25.84	0.38
848.8	V	7.20	21.46	26.51	0.45

GPRS 850 (1-solt) Radiated Power ERP					
Horizontal Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	H	7.23	21.66	26.74	0.47
836.6	H	6.84	21.54	26.23	0.42
848.8	H	6.33	21.46	25.64	0.37
Vertical Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	V	6.97	21.66	26.48	0.44
836.6	V	7.27	21.54	26.66	0.46
848.8	V	6.85	21.46	26.16	0.41

EGPRS 850 (1-slot) Radiated Power ERP					
Horizontal Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	H	-0.34	21.66	19.17	0.08
836.6	H	0.31	21.54	19.70	0.09
848.8	H	0.15	21.46	19.46	0.09
Vertical Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	V	0.02	21.66	19.53	0.09
836.6	V	-0.87	21.54	18.52	0.07
848.8	V	0.04	21.46	19.35	0.09

Note: All GPRS slot have been tested, but only the worst GPRS 1-slot show in this test item.

Note: All EGPRS slot have been tested, but only the worst EGPRS 1-slot show in this test item.

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP					
Horizontal Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.4	H	-3.43	21.66	16.08	0.04
836.4	H	-3.18	21.54	16.21	0.04
846.6	H	-3.04	21.46	16.27	0.04
Vertical Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.4	V	-2.58	21.66	16.93	0.05
836.4	V	-3.59	21.54	15.80	0.04
846.6	V	-2.56	21.46	16.75	0.05

Note: * ERP = LVL (dBm) + Correction Factor (dB) - 2.15

Correction Factor= S.G. Power - Cable loss + Antenna Gain- SPA. Reading

Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP					
Horizontal Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	H	3.15	21.66	24.81	0.30
1880	H	3.04	21.54	24.58	0.29
1909.8	H	2.64	21.46	24.10	0.26
Vertical Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	V	2.74	21.66	24.40	0.28
1880	V	3.80	21.54	25.34	0.34
1909.8	V	3.78	21.46	25.24	0.33

GPRS1900 (1-solt) Radiated Power EIRP					
Horizontal Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	H	2.46	21.66	24.12	0.26
1880	H	3.08	21.54	24.62	0.29
1909.8	H	3.82	21.46	25.28	0.34
Vertical Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	V	2.98	21.66	24.64	0.29
1880	V	3.47	21.54	25.01	0.32
1909.8	V	3.60	21.46	25.06	0.32

EGPRS1900 (1-slot) Radiated Power EIRP					
Horizontal Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	H	-3.18	21.66	18.48	0.07
1880	H	-3.48	21.54	18.06	0.06
1909.8	H	-1.86	21.46	19.60	0.09
Vertical Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	V	-2.79	21.66	18.87	0.08
1880	V	-3.01	21.54	18.53	0.07
1909.8	V	-2.52	21.46	18.94	0.08

Note: All GPRS slot have been tested, but only the worst GPRS 1-slot show in this test item

Note: All EGPRS slot have been tested, but only the worst EGPRS 1-slot show in this test item

WCDMA Band IV (RMC 12.2Kbps) Radiated Power EIRP					
Horizontal Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1712.4	H	-4.46	21.66	17.20	0.05
1732.6	H	-4.38	21.54	17.16	0.05
1752.6	H	-4.47	21.46	16.99	0.05
Vertical Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1712.4	V	-4.24	21.66	17.42	0.06
1732.6	V	-4.23	21.54	17.31	0.05
1752.6	V	-4.41	21.46	17.05	0.05

* EIRP = LVL (dBm) + Correction Factor (dB)

Correction Factor= S.G. Power - Cable loss + Antenna Gain- SPA. Reading

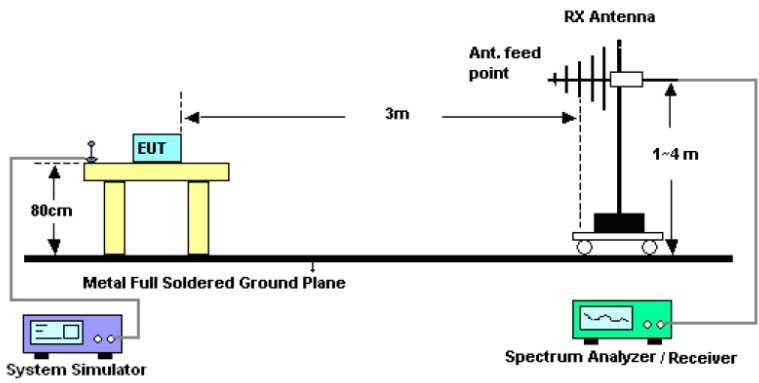
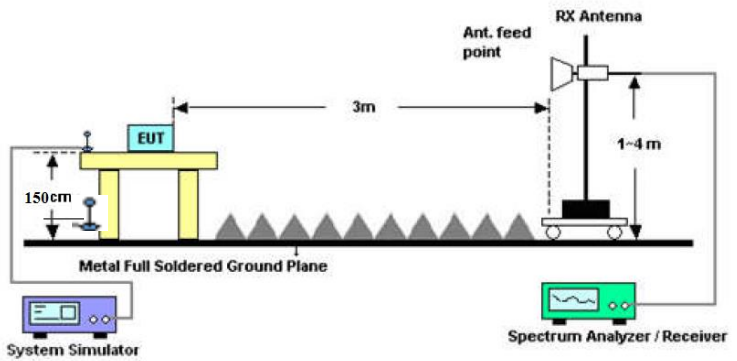
WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP					
Horizontal Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.4	H	-4.76	21.66	16.90	0.05
1880	H	-4.93	21.54	16.61	0.05
1907.6	H	-4.41	21.46	17.05	0.05
Vertical Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.4	V	-4.90	21.66	16.76	0.05
1880	V	-4.76	21.54	16.78	0.05
1907.6	V	-4.78	21.46	16.68	0.05

Note: * EIRP = LVL (dBm) + Correction Factor (dB)

Correction Factor= S.G. Power - Cable loss + Substitution Antenna Gain- SPA. Reading

5.6. Field Strength of Spurious Radiation Measurement

5.6.1. Test Specification

Test Requirement:	FCC part 22.917(a) and FCC part 24.238(a) FCC part 27.53(g)
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	-13dBm
Test setup:	For 30MHz~1GHz  Above 1GHz 
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03r01 Section 6 and ANSI / TIA-603-D-2010 Section 2.2.12. 2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground. 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower. 4. The table was rotated 360 degrees to determine the position of the highest spurious emission. 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations. 6. Make the measurement with the spectrum analyzer's

	RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission. 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator. 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission. 9. Taking the record of output power at antenna port. 10. Repeat step 7 to step 8 for another polarization. 11. $EIRP\ (dBm) = S.G.\ Power - Tx\ Cable\ Loss + Tx\ Antenna\ Gain$ 12. $ERP\ (dBm) = EIRP - 2.15$ 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts) $= P(W) - [43 + 10\log(P)]\ (dB)$ $= [30 + 10\log(P)]\ (dBm) - [43 + 10\log(P)]\ (dB)$ $= -13dBm.$
Test results:	PASS
Remark:	All modulations have been tested, but only the worst modulation show in this test item.

5.6.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Universal Radio Communication Tester	R&S	CMU200	110188	Jun. 26, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Signal Generator	Agilent	N5173B	MY58108823	Jan. 31, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025
Broadband Antenna	Schwarzbeck	VULB9163	412	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	1201	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/
EMI Test Software	EZ EMC	FA-03A2 RE+	1.1.4.2	/

5.6.3. Test Data

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
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Note: 1. Emission Level=Reading+ Cable loss+Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Band	GSM 850	Test channel:	Lowest
Test mode:		Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1648.4	Vertical	-37.32	-6.47	-43.79	-13.00	PASS
2472.6	V	-46.26	-2.89	-49.15		
3296.8	V	-58.75	-0.48	-59.23		
1648.4	Horizontal	-37.53	-6.29	-43.82		
2472.6	H	-44.84	-2.99	-47.83		
3296.8	H	-56.44	-0.10	-56.54		

Band	GSM 850	Test channel:	Middle
Test mode:		Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1673.2	Vertical	-38.71	-6.46	-45.17	-13.00	PASS
2509.8	V	-50.07	-2.75	-52.82		
3346.4	V	-58.36	-0.47	-58.83		
1673.2	Horizontal	-37.06	-6.32	-43.38		
2509.8	H	-46.19	-2.85	-49.04		
3346.4	H	-58.99	-0.10	-59.09		

Band	GSM 850	Test channel:	Highest
Test mode:		Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1697.6	Vertical	-40.30	-6.44	-46.74	-13.00	PASS
2546.4	V	-50.19	-2.58	-52.77		
3395.2	V	-57.82	-0.47	-58.29		
1697.6	Horizontal	-35.50	-6.35	-41.85		
2546.4	H	-45.12	-2.65	-47.77		
3395.2	H	-60.28	-0.10	-60.38		

Band	PCS 1900	Test channel:	Lowest
Test mode:		Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3700.4	Vertical	-44.48	0.91	-43.57	-13.00	PASS
5550.6	V	-52.93	6.87	-46.06		
7400.8	V	-60.82	10.39	-50.43		
3700.4	Horizontal	-41.36	1.89	-39.47		
5550.6	H	-47.24	7.38	-39.86		
7400.8	H	-57.42	10.01	-47.41		

Band	PCS 1900	Test channel:	Middle
Test mode:		Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3760	Vertical	-44.59	1.32	-43.27	-13.00	PASS
5640	V	-54.48	7.21	-47.27		
7520	V	-53.40	10.43	-42.97		
3760	Horizontal	-41.17	2.48	-38.69		
5640	H	-54.17	7.63	-46.54		
7520	H	-59.67	10.03	-49.64		

Band	PCS 1900	Test channel:	Highest
Test mode:		Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3819.6	Vertical	-43.10	1.72	-41.38	-13.00	PASS
5729.4	V	-52.13	7.54	-44.59		
7639.2	V	-58.68	10.58	-48.10		
3819.6	Horizontal	-41.76	3.07	-38.69		
5729.4	H	-47.47	7.89	-39.58		
7639.2	H	-59.46	10.33	-49.13		

Band	WCDMA Band V	Test channel:	Lowest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1652.8	Vertical	-50.81	-6.47	-57.28	-13.00	PASS
2479.2	V	-57.81	-2.84	-60.65		
3305.6	V	-56.36	-0.48	-56.84		
1652.8	Horizontal	-47.76	-6.30	-54.06		
2479.2	H	-58.15	-2.95	-61.10		
3305.6	H	-57.84	-0.10	-57.94		

Band	WCDMA Band V	Test channel:	Middle
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1673.2	Vertical	-47.56	-6.46	-54.02	-13.00	PASS
2509.8	V	-57.14	-2.75	-59.89		
3346.4	V	-59.04	-0.47	-59.51		
1673.2	Horizontal	-46.22	-6.32	-52.54		
2509.8	H	-59.36	-2.86	-62.22		
3346.4	H	-56.93	-0.10	-57.03		

Band	WCDMA Band V	Test channel:	Highest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1693.2	Vertical	-52.08	-6.45	-58.53	-13.00	PASS
2539.8	V	-58.58	-2.65	-61.23		
3386.4	V	-61.73	-0.47	-62.20		
1693.2	Horizontal	-47.89	-6.35	-54.24		
2539.8	H	-57.44	-2.74	-60.18		
3386.4	H	-61.17	-0.11	-61.28		

Band	WCDMA Band IV	Test channel:	Lowest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
2452.3	Vertical	-60.34	-2.96	-63.30	-13.00	PASS
3424.8	V	-59.38	-0.46	-59.84		
5137.2	V	-60.98	6.11	-54.87		
2452.3	Horizontal	-58.52	-2.99	-61.51		
3424.8	H	-58.52	-0.11	-58.63		
5137.2	H	-57.86	6.55	-51.31		

Band	WCDMA Band IV	Test channel:	Middle
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
2641.3	Vertical	-59.96	-2.15	-62.11	-13.00	PASS
3465.2	V	-57.12	-0.46	-57.58		
5197.8	V	-62.16	6.21	-55.95		
2641.3	Horizontal	-58.14	-2.11	-60.25		
3465.2	H	-61.03	-0.11	-61.14		
5197.8	H	-61.10	6.66	-54.44		

Band	WCDMA Band IV	Test channel:	Highest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature :	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3102.2	Vertical	-59.55	-2.15	-61.70	-13.00	PASS
3505.2	V	-59.08	-0.41	-59.49		
5257.8	V	-57.10	6.30	-50.8		
3102.2	Horizontal	-59.25	-0.09	-59.34		
3505.2	H	-59.39	-0.06	-59.45		
5257.8	H	-62.34	6.77	-55.57		

Band	WCDMA Band II	Test channel:	Lowest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3704.8	Vertical	-47.67	0.94	-46.73	-13.00	PASS
5557.2	V	-59.74	6.89	-52.85		
7409.6	V	-61.86	10.39	-51.47		
3704.8	Horizontal	-49.92	1.93	-47.99		
5557.2	H	-57.44	7.39	-50.05		
7409.6	H	-62.09	10.01	-52.08		

Band	WCDMA Band II	Test channel:	Middle
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3760	Vertical	-57.58	1.32	-56.26	-13.00	PASS
5640	V	-61.38	7.21	-54.17		
7520	V	-51.02	10.43	-40.59		
3760	Horizontal	-56.82	2.48	-54.34		
5640	H	-61.13	7.63	-53.50		
7520	H	-59.18	10.03	-49.15		

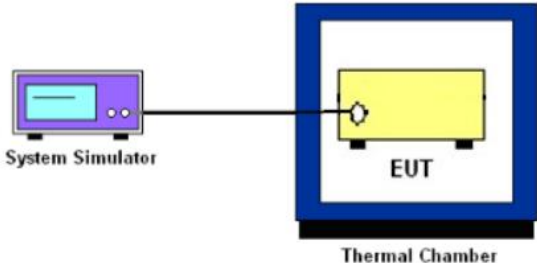
Band	WCDMA Band II	Test channel:	Highest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature:	25.1° C
		Relative Humidity:	54%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3815.2	Vertical	-50.88	1.69	-49.19	-13.00	PASS
5722.8	V	-62.30	7.52	-54.78		
7630.4	V	-63.02	10.57	-52.45		
3815.2	Horizontal	-50.01	3.03	-46.98		
5722.8	H	-57.73	7.87	-49.86		
7630.4	H	-62.20	10.31	-51.89		

5.7. Frequency Stability Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part 2.1055 ; FCC Part 22.355 ; FCC Part 24.235 FCC Part 27.54
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	FCC Part 22.355 : ± 2.5 ppm FCC Part 24.235 : The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.
Test Setup:	 The diagram shows a purple box labeled 'System Simulator' connected by a black line to a yellow box labeled 'EUT'. The 'EUT' box is situated inside a blue square frame labeled 'Thermal Chamber'.
Test Procedure:	Test Procedures for Temperature Variation 1. The testing follows FCC KDB 971168 D01v03r01 Section 9.0. 2. The EUT was set up in the thermal chamber and connected with the system simulator. 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute. 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute. Test Procedures for Voltage Variation 1. The testing follows FCC KDB 971168 D01v03r01 Section 9.0. 2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator. 3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT. 4. The variation in frequency was measured for the worst case.
Test Result:	PASS
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

5.7.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	165017	Jan. 31, 2025
Programable tempratuce and humidity chamber	JQ	JQ-2000	/	Jun. 26, 2025
DC power supply	Kingrang	KR3005K	/	Jun. 26, 2025

Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT241216E022-A

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT241216E022-B & TCT241216E022-C

Test Data for Appendix Refer to Appendix For GSM 850, Appendix For GSM 1900, Appendix For WCDMA Band 2, Appendix For WCDMA Band 4, Appendix For WCDMA Band 5

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