

TEST REPORT

FCC ID. :	2A9LJ-ME74	
Test Report No..... :	TCT240516E050	
Date of issue..... :	Aug. 28, 2024	
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..... :	Meferi Technologies Co., Ltd.	
Address..... :	4F, A6, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610041, Chengdu, Sichuan, 610041 China	
Manufacturer's name ... :	Meferi Technologies Co., Ltd.	
Address..... :	4F, A6, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610041, Chengdu, Sichuan, 610041 China	
Standard(s) :	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part22	
Test item description :	MOBILE COMPUTER	
Trade Mark :	MEFERI	
Model/Type reference..... :	ME74	
Rating(s)..... :	Refer to EUT description of page 3	
Date of receipt of test item :	May 16, 2024	
Date (s) of performance of test..... :	May 16, 2024 ~ Aug. 28, 2024	
Tested by (+signature) ... :	Brews XU	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Test item description	MOBILE COMPUTER
Model/Type reference.....	ME74
Sample Number.....	TCT240516E022-0102
Tx Frequency	CDMA BC0: 824.70MHz ~ 848.31MHz
Rx Frequency	CDMA BC0: 869.70MHz ~ 893.31MHz
Maximum Output Power to Antenna.....	CDMA BC0: 22.81dBm
99% Occupied Bandwidth.....	CDMA BC0: 1M28F9W
Type of Modulation.....	1xRTT: QPSK 1xEV-DO: QPSK/8PSK
Antenna Type.....	FPC Antenna
Antenna Gain.....	CDMA BC0: -0.1dBi
Rating(s).....	Adapter Information: Model: HJ-FC001K7-US Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 3.0A/DC 9.0V, 2.0A/DC 12.0V, 1.5A, 18.0W Rechargeable Li-ion Battery DC 3.8V

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

CDMA BC0	
Channel:	Frequency (MHz)
1013	824.70
1014	824.73
....	
383	836.49
384	836.52
385	836.55
...	...
776	848.28
777	848.31

2. Test Result Summary

Requirement	CFR 47 Section	Result
Conducted Output Power	§22.913; §2.1046	PASS
Peak-to-Average Ratio	§2.1046; §22.913	PASS
Effective Radiated Power	§2.1046; §22.913(a)	PASS
Equivalent Isotropic Radiated Power	§2.1046; §22.913(a)	PASS
Occupied Bandwidth	§2.1049	PASS
Band Edge	§2.1051 §22.917(a)	PASS
Conducted Spurious Emission	§2.1051; §22.917	PASS
Field Strength of Spurious Radiation	§2.1053; §22.917(a)	PASS
Frequency Stability for Temperature & Voltage	§2.1055; §22.355	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:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar

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
CDMA BC0	1xRTT Link	1xRTT 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

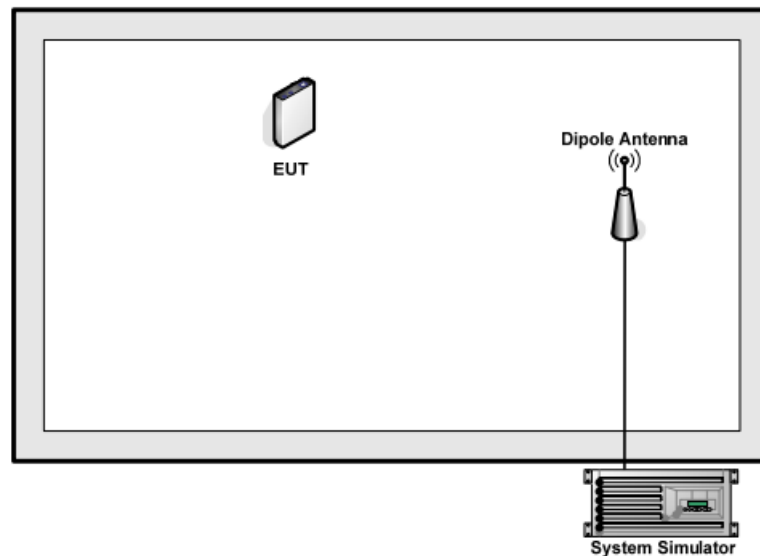
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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

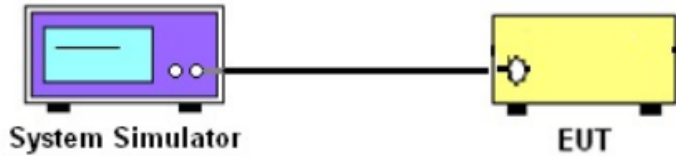
The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

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)
Test Method:	FCC KDB 971168 D01 v03r01
Operation mode:	Refer to item 3.1
Limits:	CDMA BC0: 7W
Test Setup:	 The diagram illustrates the test setup. On the left is a purple box labeled 'System Simulator' with a blue screen and two small circles. A black line connects it to a yellow box on the right labeled 'EUT' with a single circle on its left side.
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
System simulator	R&S	CMU200	110188	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

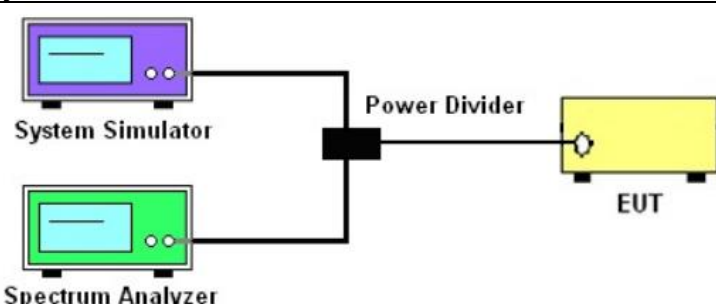
5.1.3. Test data

Conducted Power Measurement Results:

Average Conducted Power (*Unit: dBm)			
Band	CDMA BC0		
Channel	1013	384	777
Frequency(MHz)	824.70	836.52	848.31
1XRTT RC1 SO55	22.54	22.77	22.75
1XRTT RC3 SO55	22.46	22.81	22.59
1XEV-DO RTAP 153.6Kbps	22.56	22.65	22.49
1XEV-DO RETAP 4096bITS	22.51	22.73	22.55

5.2. Peak to Average Ratio

5.2.1. Test Specification

Test Requirement:	FCC part 22.913
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:	 The diagram illustrates the test setup. A System Simulator (represented by a purple monitor icon) and a Spectrum Analyzer (represented by a green monitor icon) are connected to a Power Divider (represented by a black box). The Power Divider is then connected to the EUT (Equipment Under Test, represented by a yellow box icon).
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
System simulator	R&S	CMU200	110188	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

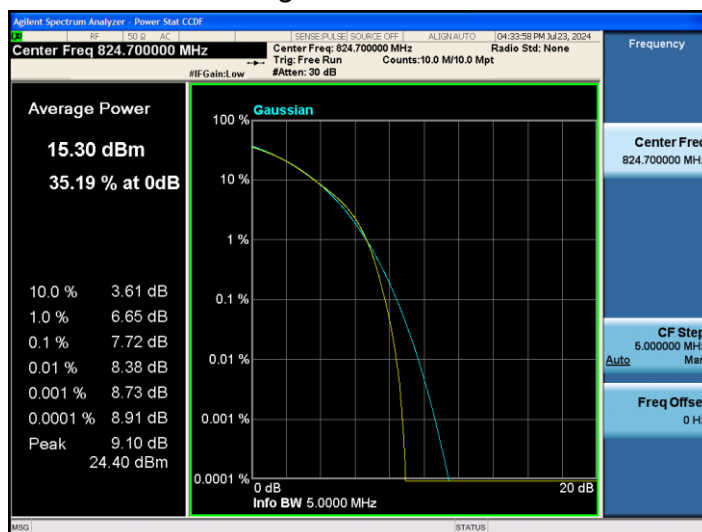
5.2.3. Test Data

Cellular Band			
Mode	CDMA BC0		
Channel	1013	384	777
Frequency (MHz)	824.70	836.52	848.31
Peak-to-Average Ratio (dB)	7.72	7.57	7.12

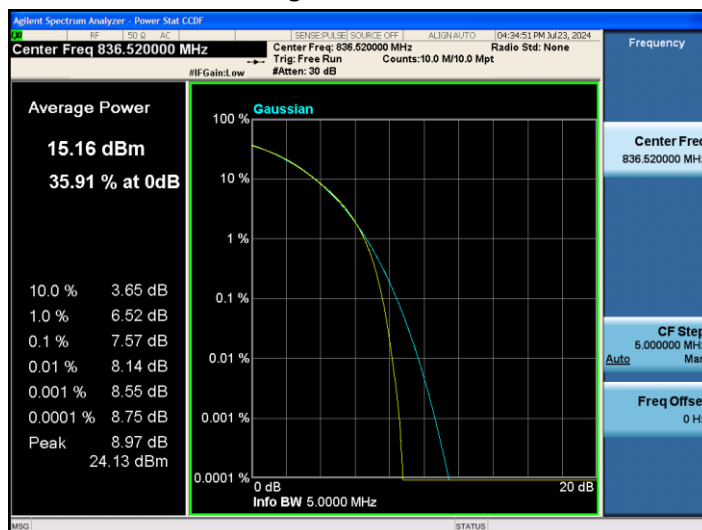
Test plots as follows:

CDMA BC0

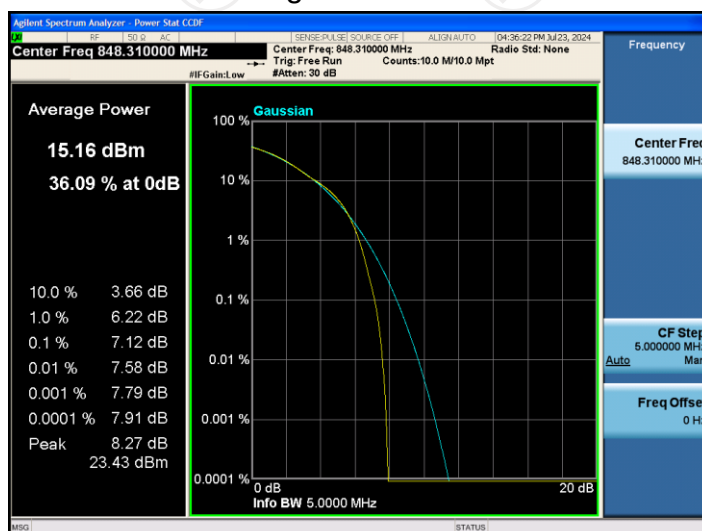
Peak-to-Average Ratio on Channel 1013



Peak-to-Average Ratio on Channel 384

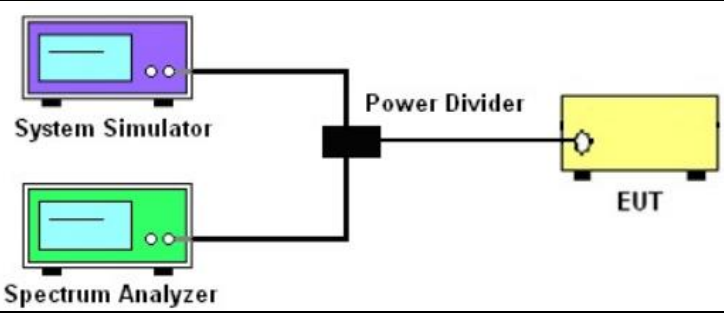


Peak-to-Average Ratio on Channel 777



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:	
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
System simulator	R&S	CMU200	110188	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

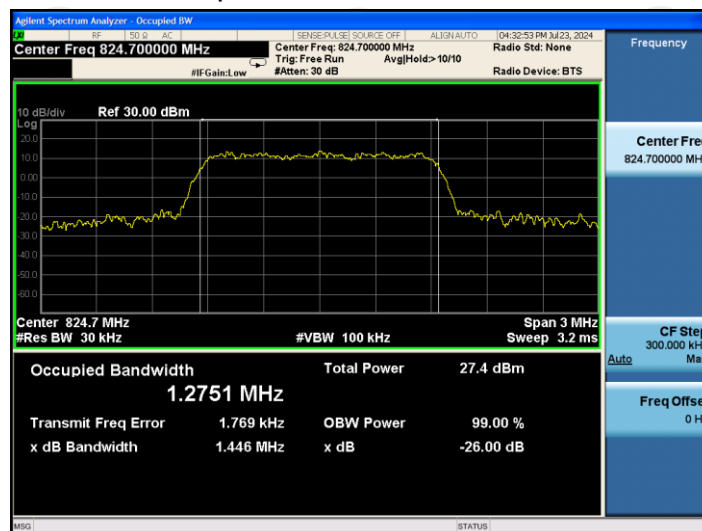
5.3.3. Test data

Cellular Band			
Mode	CDMA BC0		
Channel	1013	384	777
Frequency (MHz)	824.70	836.52	848.31
99% OBW (kHz)	1275.1	1269.1	1274.2
26dB BW (kHz)	1446.0	1432.0	1431.0

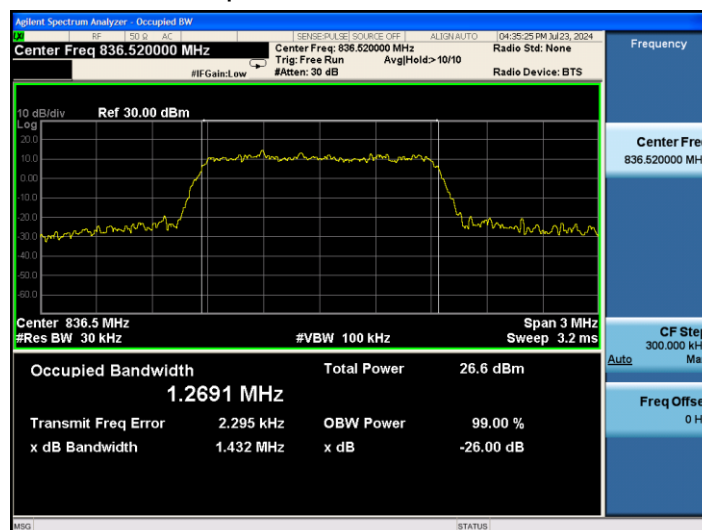
Test plots as follows:

Band:	CDMA BC0	Test Mode:	1xRTT Link
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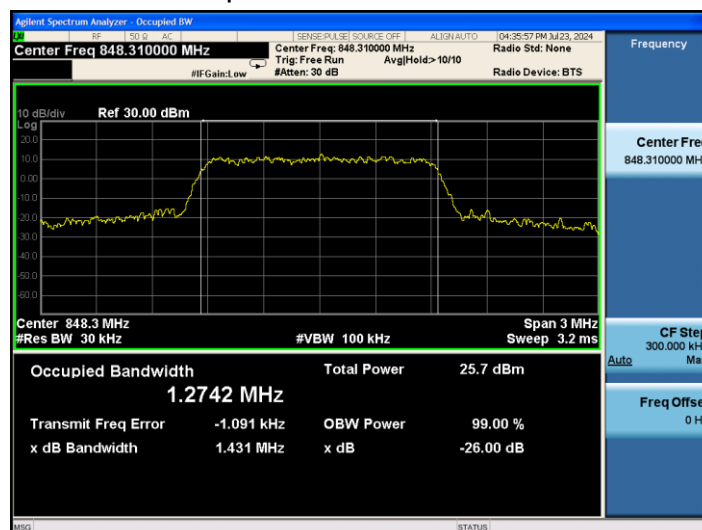
26dB&99% Occupied Bandwidth Plot on Channel 1013



26dB&99% Occupied Bandwidth Plot on Channel 384

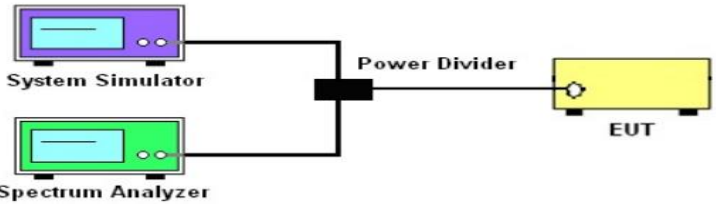


26dB&99% Occupied Bandwidth Plot on Channel 777



5.4. Band Edge and Conducted Spurious Emission Measurement

5.4.1. Test Specification

Test Requirement:	FCC part22.917(a)
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	-13dBm
Test Setup:	 The diagram illustrates the test setup. A System Simulator (purple box) and a Spectrum Analyzer (green box) are connected to a Power Divider (black box). The Power Divider is then connected to the EUT (yellow box). The Spectrum Analyzer is also connected to the Power Divider.
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

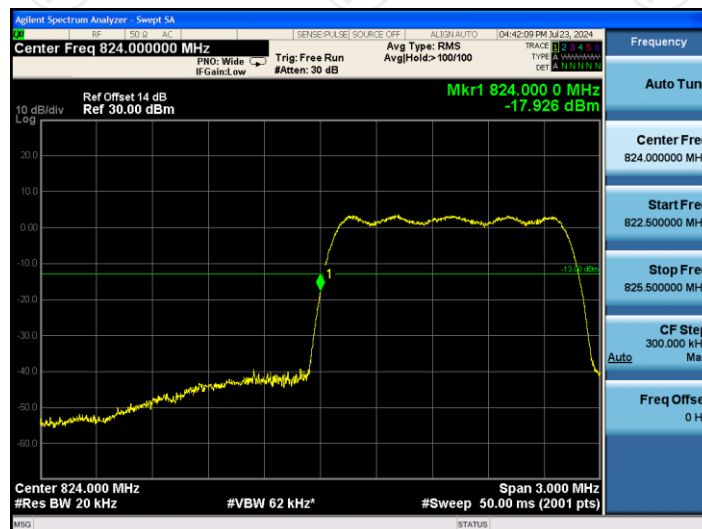
Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	110188	Jun. 26, 2025
Spectrum Analyzer	R&S	FSU	200054	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.4.3. Test data

Test plots as follows:

Band:	CDMA BC0	Test Mode:	1xRTT Link
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Lower Band Edge Plot on Channel 1013

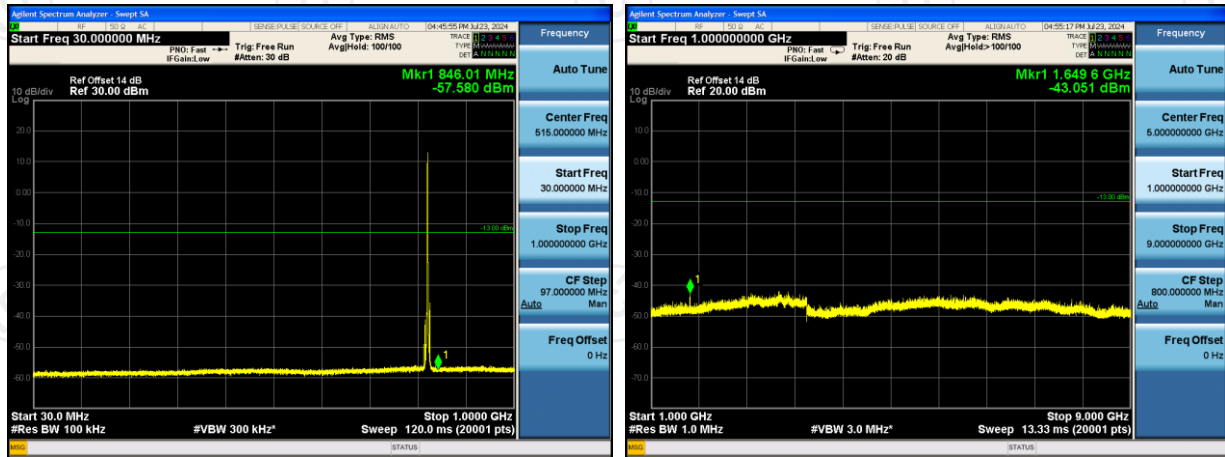


Higher Band Edge Plot on Channel 777

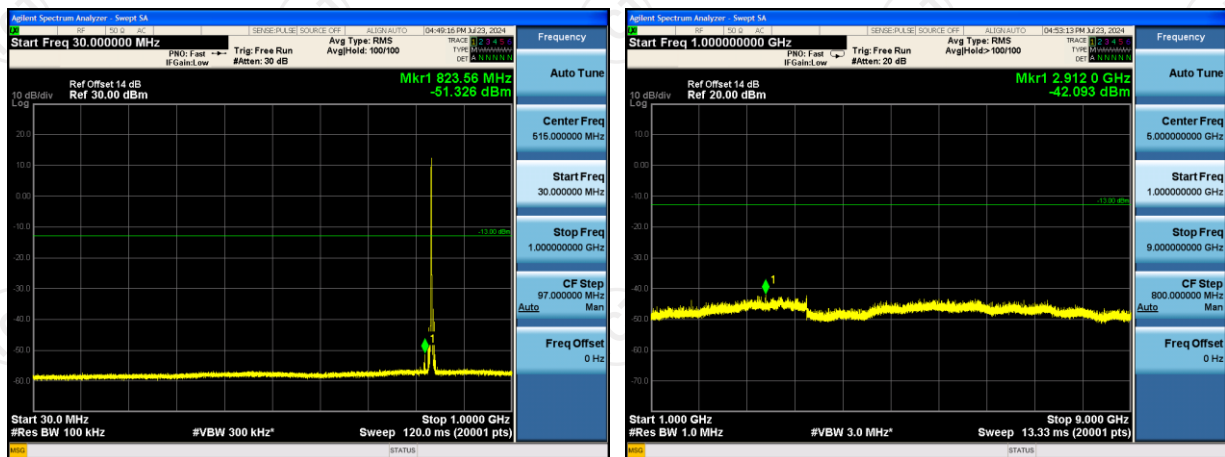


Band:	CDMA BC0	Test Mode:	1xRTT Link
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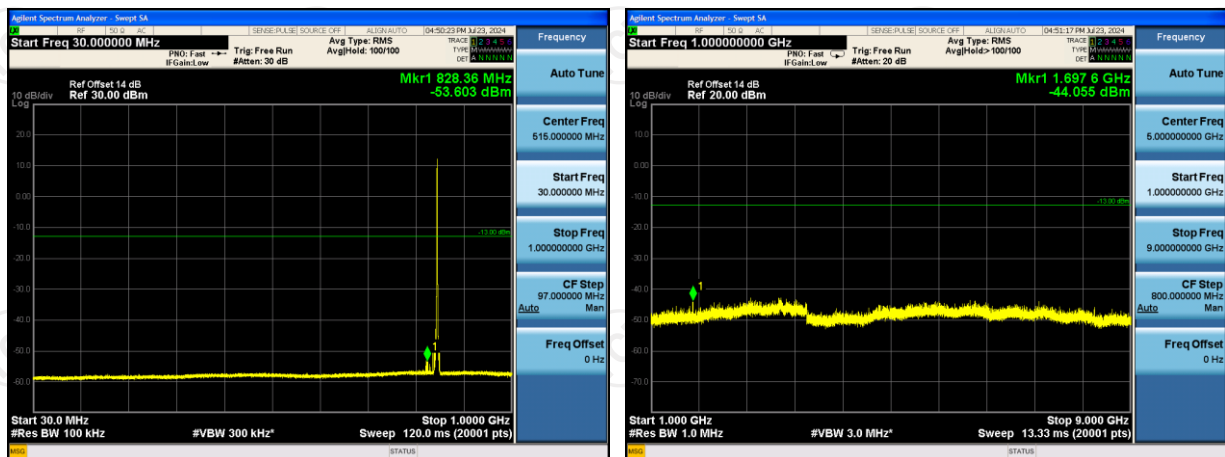
Conducted Spurious Emission on Channel 1013



Conducted Spurious Emission on Channel 384

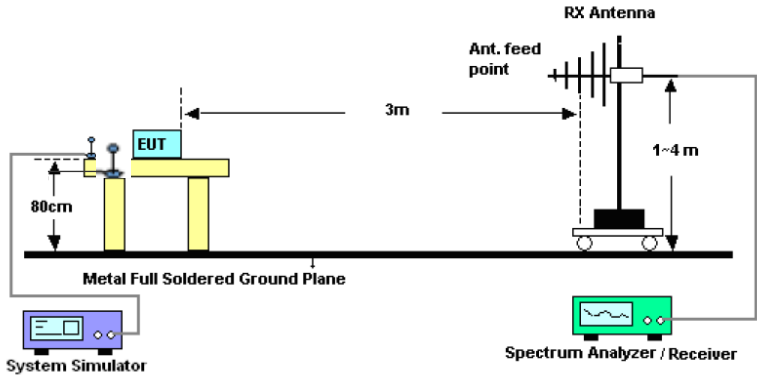
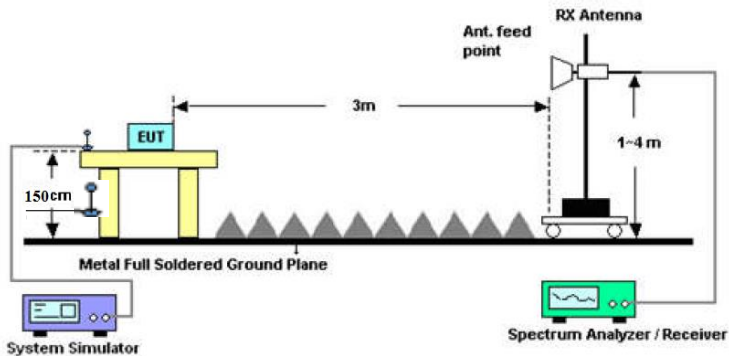


Conducted Spurious Emission on Channel 777



5.5. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

5.5.1. Test Specification

Test Requirement:	FCC part 22.913(a)		
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:	CDMA BC0: 7W ERP		
Test Setup:	From 30MHz to 1GHz		
			
Test Setup:	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

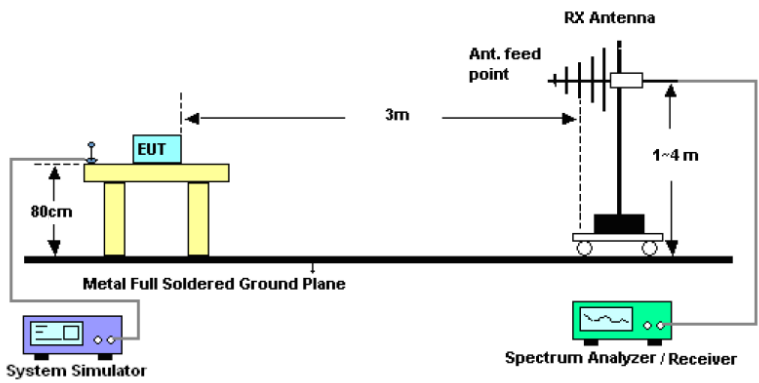
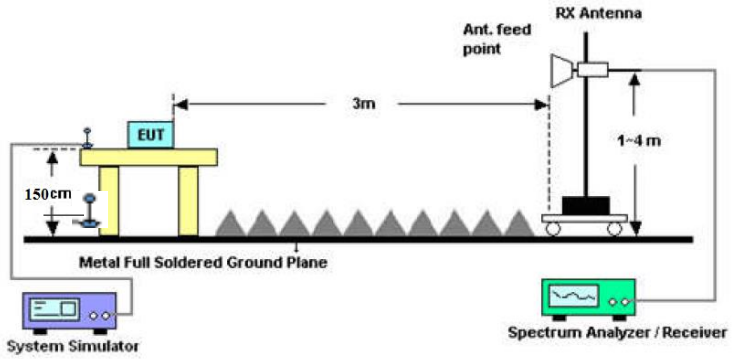
CDMA BC0 Radiated Power ERP					
Horizontal Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	H	0.45	21.66	19.96	0.10
836.52	H	0.22	21.54	19.61	0.09
848.31	H	-0.23	21.46	19.08	0.08
Vertical Polarization (Antenna Pol.)					
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	V	0.31	21.66	19.82	0.10
836.52	V	0.36	21.54	19.75	0.09
848.31	V	0.04	21.46	19.35	0.09

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

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

5.6. Field Strength of Spurious Radiation Measurement

5.6.1. Test Specification

Test Requirement:	FCC part 22.917(a)
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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--	--	--
--	--	--
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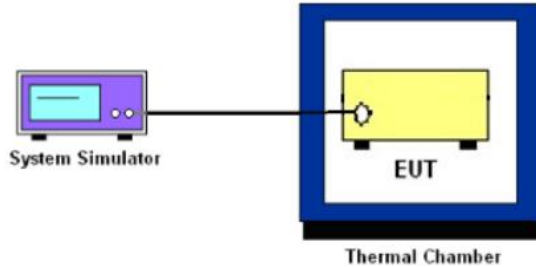
Note: 1. Emission Level=Reading+ Cable loss+Antenna factor-Amp factor

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

Band	CDMA BC0		Test channel:	Lowest
Test mode:			Temperature:	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1649.40	Vertical	-44.63	-13.00	PASS
2474.10	V	-42.80		
3298.80	V	-53.25		
1649.40	Horizontal	-45.44		
2474.10	H	-40.97		
3298.80	H	-53.29		
Band	CDMA BC0		Test channel:	Middle
Test mode:			Temperature:	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.04	Vertical	-45.14	-13.00	PASS
2509.56	V	-47.27		
3346.08	V	-55.18		
1673.04	Horizontal	-44.59		
2509.56	H	-41.51		
3346.08	H	-55.00		
Band	CDMA BC0		Test channel:	Highest
Test mode:			Temperature:	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1696.62	Vertical	-42.77	-13.00	PASS
2544.93	V	-47.46		
3393.24	V	-55.79		
1696.62	Horizontal	-45.44		
2544.93	H	-43.15		
3393.24	H	-54.51		

5.7. Frequency Stability Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part 2.1055; FCC Part 22.355
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	FCC Part 22.355: ± 2.5 ppm
Test Setup:	 The diagram illustrates the test setup. On the left, a 'System Simulator' is represented by a purple box with a screen and buttons. A cable connects it to a yellow box labeled 'EUT' (Equipment Under Test). The EUT is placed 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
Universal Radio Communication Tester	R&S	CMU200	110188	Jun. 26, 2025
Programable tempratuce and humidity chamber	JQ	JQ-2000	/	Jun. 26, 2025
DC power supply	Kingrang	KR3005K	/	Jun. 26, 2025
Combiner Box	AT890-RFB	Ascentest	/	/

5.7.3. Test Data

Test Result of Temperature Variation

Band:	CDMA BC0	Channel:	384
Limit (ppm):	2.5	Frequency:	836.52MHz
Temperature (°C)	Deviation (ppm)	Result	
50	0.015	PASS	
40	0.014		
30	0.013		
20	0.011		
10	0.012		
0	0.013		
-10	0.015		
-20	0.016		
-30	0.017		

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result
CDMA BC0	CDMA	4.35	+0.014	2.5	PASS
		3.8	+0.013		
		BEP	+0.016		

Note:

1. Normal Voltage = 3.8V.
2. Battery End Point (BEP) = 3.5V.
3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Appendix A: Photographs of Test Setup

Refer to the test report No. TCT240516E049

Appendix B: Photographs of EUT

Refer to the test report No. TCT240516E022

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