

FCC RF Test Report

APPLICANT	:	OnePlus Technology (Shenzhen) Co., Ltd
EQUIPMENT	:	Smart Phone
BRAND NAME	:	ONEPLUS
MODEL NAME	:	IN2015
FCC ID	:	2ABZ2-EE103
STANDARD	:	47 CFR Part 2, and 90(S)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Nov. 20, 2019 and completely tested on Jan. 02, 2020. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Dogue Cher

Reviewed by: Derreck Chen / Supervisor

File Shih

Approved by: Eric Shih / Manager



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TABLE OF CONTENTS

RE	VISION	I HISTORY	3
SU	MMAR	Y OF TEST RESULT	4
1	GENE	RAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Manufacturer	5
	1.3	Feature of Equipment Under Test	5
	1.4	Product Specification of Equipment Under Test	
	1.5	Modification of EUT	
	1.6	Maximum Conducted Power, Frequency Tolerance and Emission Designator	
	1.7	Testing Site	
	1.8	Test Software	
	1.9	Applied Standards	7
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	8
	2.1	Test Mode	8
	2.2	Connection Diagram of Test System	8
	2.3	Support Unit used in test configuration and system	8
	2.4	Measurement Results Explanation Example	9
	2.5	Frequency List of Low/Middle/High Channels	9
3	TEST	RESULT	.10
	3.1	Conducted Output Power Measurement	10
	3.2	99% Occupied Bandwidth and 26dB Bandwidth Measurement	
	3.3	Emissions Mask Measurement	12
	3.4	Emissions Mask – Out Of Band Emissions Measurement	.14
	3.5	Field Strength of Spurious Radiation Measurement	16
	3.6	Frequency Stability Measurement	18
4	LIST	OF MEASURING EQUIPMENT	20
5	UNCE	RTAINTY OF EVALUATION	21
AP	PENDI	X A. TEST RESULTS OF CONDUCTED TEST	

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. SETUP PHOTOGRAPHS



REVISION HISTORY

VERSION	DESCRIPTION	ISSUED DATE
Rev. 01	Initial issue of report	Mar. 19, 2020



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting only PASS		-
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	Reporting only PASS		-
3.3	§2.1051 §90.691	Emission masks – In-band emissions	< 50+10log ₁₀ (P[Watts])	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log ₁₀ (P[Watts])	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 49.97 dB at 2453.70 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.3 Feature of Equipment Under Test

Product Feature & Specification				
guipment Smart Phone				
Brand Name	ONEPLUS			
Model Name	IN2015			
FCC ID	2ABZ2-EE103			
EUT supports Radios application	CDMA/GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n (HT20) WLAN 2.4GHz 802.11ax (HE20/HE40) WLAN 5GHz 802.11a/n/ac (HT20/HT40/VHT20/VHT40/VHT80) WLAN 5GHz 802.11ax (HE20/HE40/HE80) Bluetooth BR / EDR / LE GNSS/NFC			
IMEI Code	Conducted: 990015750022220 Radiation: 001003902672834			
HW Version	15			
SW Version	Oxygen OS 10.5.IN21AA			
EUT Stage	Production Unit			

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. This is a variant report, the difference is to change the model name and SW version for market segment. The change has no influence on the test results, all the test results are leveraged from original report FW9N2025-01A.



1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard				
Tx Frequency	EX Frequency BC10 : 817.9 ~ 823.1 MHz			
Rx Frequency	BC10 : 862.9 ~ 868.1 MHz			
Maximum Output Power to Antenna	Top Antenna: 23.83 dBm Bottom Antenna: 24.00 dBm			
Antenna Gain	Top Antenna: -3.0 dBi Bottom Antenna: -2.0 dBi			
Antenna Type	PIFA Antenna			
Type of Modulation	CDMA2000 1xRTT: QPSK CDMA2000 1xEV-DO: QPSK/8PSK			

Remark: Bottom antenna power is worse than the top antenna, so choose the bottom antenna for full test.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum Conducted Power, Frequency Tolerance and Emission Designator

FCC Rule	System	Type of Modulation	Frequency Tolerance (ppm)	Emission Designator	Maximum Conducted power(W)
Part 90S	CDMA2000 BC10 1xRTT	QPSK	0.0131 ppm	1M27F9W	0.2512



1.7 Testing Site

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for

Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.						
Test Site Location	518055 People's Republ						
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.				
Test Site No.	TH01-SZ CN1256		421272				
Test Firm	Sporton International (Shenzhen) Inc.						
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398						
-		ECC Designation No	EQO Test Firm Devistration No.				
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.				

1.8 Test Software

ltem	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

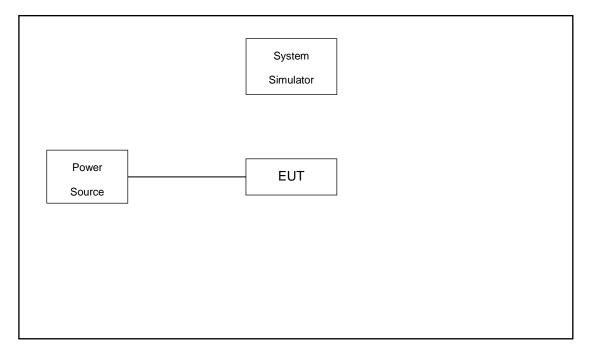
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 10th harmonic.

Test Modes			
Band Radiated TCs Conducted TCs			
CDMA2000 BC10	■ 1xRTT Link	■ 1xRTT Link	

Note: The maximum RF output power levels are 1xRTT RC1 SO55 mode for CDMA2000 BC10 on QPSK Link; only these modes were used for all tests.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

ltem	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m



2.4 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 EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.0 dB and 10dB attenuator.

Offset (dB) = RF cable loss (dB) + attenuator factor (dB).

= 4.0 + 10 = 14.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

Frequency List								
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest				
CDMA200	Channel	476	580	684				
BC10	Frequency	817.9	820.5	823.1				



3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 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 and record the power level from the system simulator.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.



3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

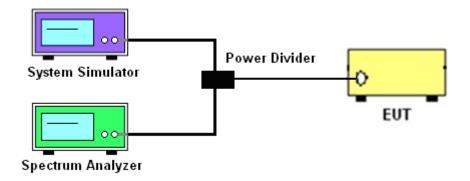
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

3.2.4 Test Setup



3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.



3.3 Emissions Mask Measurement

3.3.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a):

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $Log_{10}(f/6.1)$ decibels or 50 + 10 $Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log₁₀(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.3.2 Measuring Instruments

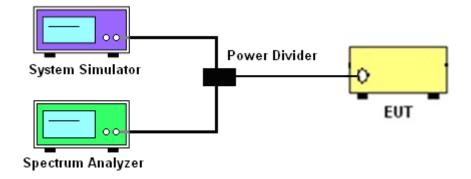
The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The emissions mask of low and high channels for the highest RF powers were measured.
- The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.
- 4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.



3.3.4 Test Setup



3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.



3.4 Emissions Mask – Out Of Band Emissions Measurement

3.4.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least $43 + 10 \log (P) dB$. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10^{th} harmonic.

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 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 + 10log(P)dB below the transmitter power P(Watts)

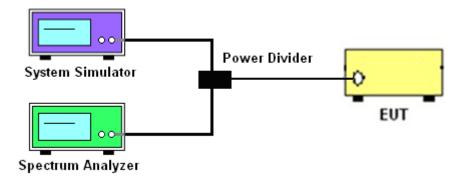
= P(W)- [43 + 10log(P)] (dB)

= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

= -13dBm.



3.4.4 Test Setup



3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.

3.5 Field Strength of Spurious Radiation Measurement

3.5.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

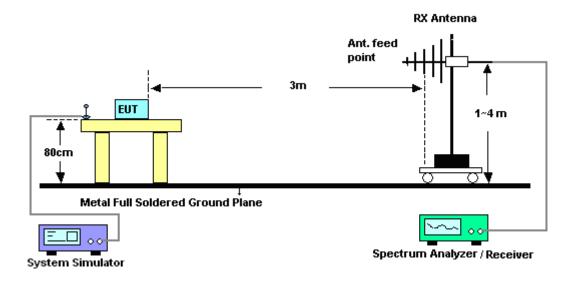
3.5.3 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

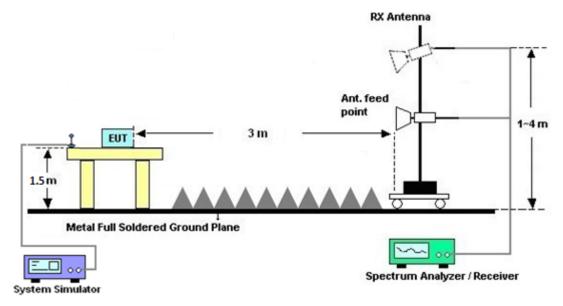


3.5.4 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.5.5 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.



3.6 Frequency Stability Measurement

3.6.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency according to FCC Part 90.213.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures for Temperature Variation

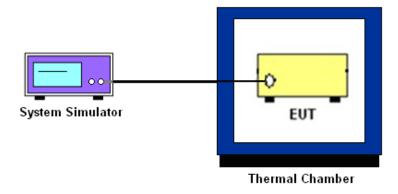
- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step 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.

3.6.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
- 2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 3. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the
- 4. battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.



3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 18, 2019	Dec. 16, 2019	Apr. 17, 2020	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Dec. 22, 2018	Dec. 16, 2019	Dec. 21, 2019	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 19, 2019	Jan. 02, 2020	Apr. 18, 2020	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 19, 2019	Jan. 02, 2020	Jul. 18, 2020	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 07, 2019	Jan. 02, 2020	Jan. 06, 2020	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2019	Jan. 02, 2020	Oct. 17, 2020	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2019	Jan. 02, 2020	Oct. 17, 2020	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	61601000247 0	N/A	NCR	Jan. 02, 2020	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jan. 02, 2020	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jan. 02, 2020	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	2.5dB
Confidence of 95% (U = 2Uc(y))	2.508

Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Confidence of 95% ($U = 2Uc(v)$)	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power)

Top Antenna:

Conducted Power (*Unit: dBm)						
Band		CDMA2000 BC10				
Channel	476	684				
Frequency	817.9	820.5	823.1			
1xRTT RC1 SO55	23.76	23.76 <mark>23.83</mark>				
1xRTT RC3 SO55	23.74	23.79	23.69			
1xRTT RC3 SO32(+ F-SCH)	23.71	23.75	23.67			
1xRTT RC3 SO32 (+SCH)	23.68	23.73	23.65			
1xEVDO RTAP 153.6Kbps	23.65	23.72	23.62			
1xEVDO RETAP 4096Bits	23.63	23.68	23.60			

Bottom Antenna:

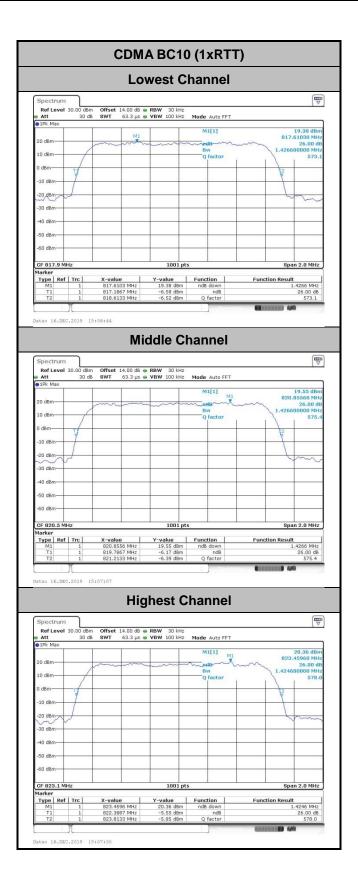
Conducted Power (*Unit: dBm)							
Band		CDMA2000 BC10					
Channel	476	684					
Frequency	817.9	820.5	823.1				
1xRTT RC1 SO55	23.91	<mark>24.00</mark>	23.97				
1xRTT RC3 SO55	23.90	23.99	23.96				
1xRTT RC3 SO32(+ F-SCH)	23.88	23.97	23.94				
1xRTT RC3 SO32 (+SCH)	23.85	23.96	23.93				
1xEVDO RTAP 153.6Kbps	23.84	23.96	23.93				
1xEVDO RETAP 4096Bits	23.82	23.94	23.91				



26dB Bandwidth

Mode	CDMA BC10(MHz)
Mod.	1xRTT
Lowest CH	1.427
Middle CH	1.427
Highest CH	1.425



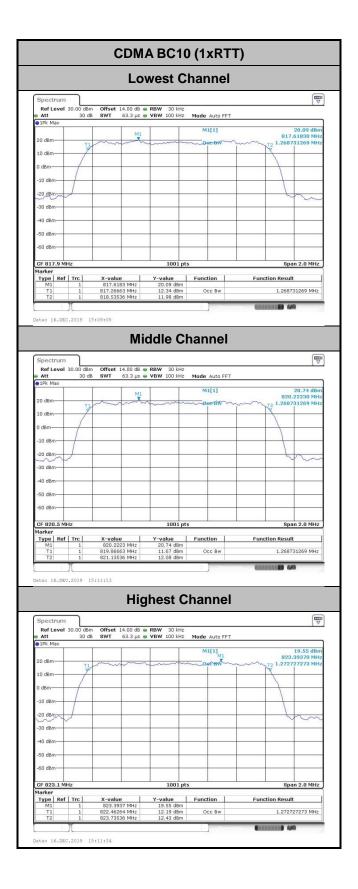




Occupied Bandwidth

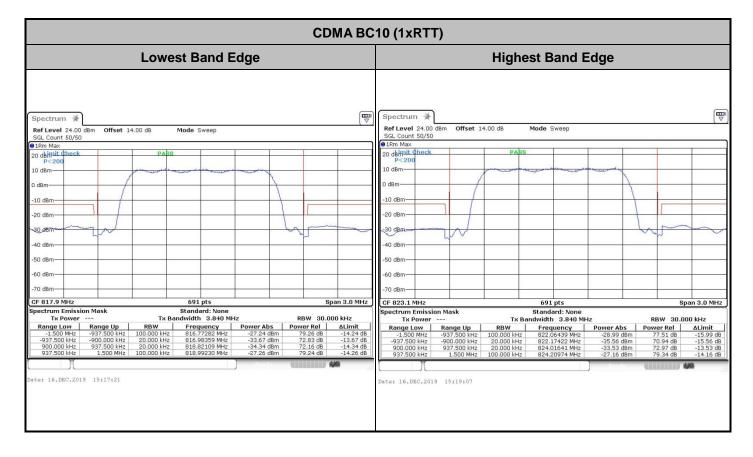
Mode	CDMA BC10(MHz)
Mod.	1xRTT
Lowest CH	1.269
Middle CH	1.269
Highest CH	1.273







Conducted Band Edge





Conducted Spurious Emission

	L	owest 0	Channel		
Spectrum					
Ref Level 24.00 dB SGL Count 10/10	m Offset 14.00 c	dB Mode Au	ito Sweep		
1 Max 20 dbinait Chark	0.105.105	PARS			=
Line _\$PURIOU	S_LINE_ABS_	PASS			+
0 dBm	+			<u> </u>	
-10 dBm					
-20 dBm	-				
-30 dBm	المتأولات التحقيق الملطي التربي المالي التربي الملحان	Alternational and a second	۲۰۱۵ (۲۰۱۵) ۲۰۰۵ (۲۰۰۵) ۲۰۰۵ ۲۰۱۹ (۲۰۰۹) ۲۰۰۹ (۲۰۰۹) ۲۰۰۹ (۲۰۰۹) ۲۰۱۹ (۲۰۰۹) ۲۰۰۹ (۲۰۰۹)	and the second s	Transfer and a location
-50 dBm			_		
-60 dBm					_
-70 dBm	_				_
Start 30.0 MHz		36006	pts	Sto	op 12.75 GHz
Range Low	Range Up	RBW	Frequency	Power Abs	۵Limit
30.000 MHz 827.750 MHz	813.250 MHz 1.000 GHz	1.000 MHz 1.000 MHz	627.90823 MHz 872.98607 MHz	-33.70 dBm -33.75 dBm	-20.70 dB -20.75 dB
1.000 GHz 3.000 GHz	3.000 GHz 7.000 GHz	1.000 MHz 1.000 MHz	2.98613 GHz 5.22647 GHz	-31.33 dBm -27.57 dBm	-18.33 dB -14.57 dB
7.000 GHz 10.000 GHz	10.000 GHz 12.750 GHz	1.000 MHz 1.000 MHz	9.10405 GHz 10.67865 GHz	-28.43 dBm -27.69 dBm	-15.43 dB -14.69 dB
I.			l Dear	CHINES.	digita
ate: 16.DEC.2019	15:29:03				
		Middle C	Channel		
					_
Ref Level 24.00 dB	m Offset 14.00 c	B Mode **	ito Sweep		
SGL Count 10/10	Onset 14.00 (JO MODE AU	NO SWEEP		
1 Max 20 dbinait Chark		PARS			
Line _\$PURIOU 10 dBm	S_LINE_ABS_	PASS			
0 dBm	+				
-10 dBm		_			+
-20 dBm	-				
-30 dBm	and provide the second second second	COLUMN THE PARTY OF	Intelligentian and another and	والمراجع المراجع المراجع والمراجع	A
all the second	Los In Los Anderson Market	COLUMN STREET, STREET, ST.	and the state of providence of the state	and the second set of the local	And the second second second
-50 dBm	and a start of the start land on the start of the				
-50 dBm	الأركاني فمتصليح الياري الياري . المراجع				
-50 dBm -60 dBm -70 dBm		Alberte en la construction de la			
-60 dBm -70 dBm Start 30.0 MHz		36006	pts	Sto	op 12.75 GHz
-60 dBm -70 dBm Start 30.0 MHz Spurious Emissions Range Low	Range Up	RBW	Frequency	Power Abs	۵Limit
-60 dBm -70 dBm Start 30.0 MHz Spurious Emissions Range Low 30.000 MHz 827.750 MHz	813.250 MHz 1.000 GHz	RBW 1.000 MHz 1.000 MHz	Frequency 724.19984 MHz 879.09789 MHz	Power Abs -34.22 dBm -33.06 dBm	△Limit -21.22 dB -20.06 dB
-50 dBm -70 dBm Start 30.0 MHz Spurious Emissions Range Low 30.000 MHz 827.750 MHz 1.000 GHz 3.000 GHz	813.250 MHz 1.000 GHz 3.000 GHz 7.000 GHz	RBW 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724.19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm	ΔLimit -21.22 dB -20.06 dB -18.75 dB -14.19 dB
-60 dBm -70 dBm Start 30.0 MHz Bpurious Emissions Range Low 30.000 MHz 827.750 MHz 1.000 GHz	813.250 MHz 1.000 GHz 3.000 GHz	RBW 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724.19984 MHz 879.09789 MHz 2.86664 GHz	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm	ΔLimit -21.22 dB -20.06 dB -18.75 dB
-60 dBm -70 dBm Start 30.0 MHz Surious Emissions Range Low 30.000 MHz 827.750 MHz 1.000 GHz 3.000 GHz 10.000 GHz	813.250 MHz 1.000 GHz 3.000 GHz 7.000 GHz 10.000 GHz 12.750 GHz	RBW 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724.19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ΔLimit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB
-60 dBm -70 dBm Start 30.0 MHz spurious Emissions Range Lew 30.000 MHz 827.750 MHz 1.000 GHz 3.000 GHz 10.000 GHz	813.250 MHz 1.000 GHz 3.000 GHz 7.000 GHz 10.000 GHz	RBW 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724.19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ΔLimit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB
-60 dBm -70 dBm Start 30.0 MHz Surious Emissions Range Low 30.000 MHz 827.750 MHz 1.000 GHz 3.000 GHz 10.000 GHz	813.250 MHz 1.000 GHz 3.000 GHz 7.000 GHz 10.000 GHz 12.750 GHz 15:30:12	RBW 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724.19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz 11.63209 GHz	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ΔLimit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB
-60 dBm -70 dBm Start 30.0 MHz B0.00 MHz B0.00 MHz B0.00 MHz B0.00 MHz 1.000 GHz 1.000 GHz 1.000 GHz 1.000 GHz 1.000 GHz 1.000 GHz 1.000 GHz 1.000 GHz 1.000 GHz 1.000 GHz	813.250 MHz 1.000 GHz 3.000 GHz 7.000 GHz 10.000 GHz 12.750 GHz 15:30:12	RBW 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724.19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 dBm -70 dBm Start 30.0 MHz Spurious Emissions Range Low 30.000 MHz 927.750 MHz 1.000 GHz 3.000 GHz 7.000 GHz	013.250 MHz 1.000 GHz 3.000 GHz 7.000 GHz 10.000 GHz 12.750 GHz 15:30:12	RBW 1.000 MHz 1.000	Frequency 724.19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz 11.63209 GHz	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ΔLimit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB
-60 dBm -70 dBm Start 30.0 MHz 30.000 MHz 30.000 MHz 427.750 MHz 1.000 GHz 1.000 GHz 1.000 GHz 1.000 GHz 10.000 GHZ 10.0000 GHZ 10.0000 GHZ 10.0000 GHZ 10.0000 GHZ 10.0000 GHZ 10.0000 GHZ 10.0000 GHZ 10.0000 G	013.250 MHz 1.000 GHz 3.000 GHz 7.000 GHz 10.000 GHz 12.750 GHz 15:30:12	RBW 1.000 MHz 1.000	Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz 11.63209 GHz 1	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 d8m -70 d8	613.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 12.750 GHz 15:30:12 m Offset 14.00 G	RBW 1.000 MHz 1.000	Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz 11.63209 GHz 1	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 d8m -70	613.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 12.750 GHz 15:30:12 m Offset 14.00 G	RBW 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz 11.63209 GHz 1	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 dBm -70	613.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 12.750 GHz 15:30:12 m Offset 14.00 G	RBW 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz 11.63209 GHz 1	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 d8m -70	813.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 1.000 GHz 12.750 GHz 15:30:12 M Offset 14.00 G S INE_ABS	RBW 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz 11.63209 GHz 1	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 dBm -70 dBm -70 dBm Start 30.0 MHz gurfuos Emissions Renge Low 30.000 MHz 827.750 MHz 1.000 GHz 1.000 GHz 1.000 GHz 1.000 GHz 10.000 GHz 10.000 GHz Spectrum Ref Level 24.00 dB Spectrum 20 dbylit Abnzk Lino 20 dbylit Abnzk 20 dbylit Abnzk Lino 20 dbylit Abnzk 20 dbylit Abn	813.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 1.000 GHz 12.750 GHz 15:30:12 M Offset 14.00 G S INE_ABS	RBW 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz 11.63209 GHz 1	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 d8m -70	813.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 1.000 GHz 12.750 GHz 15:30:12 M Offset 14.00 G S INE_ABS	RBW 1.000 MHz 1.000 MHz 1.000 MHz	Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 6.99675 GHz 9.67623 GHz 11.63209 GHz 1	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 d8m	813.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 1.000 GHz 12.750 GHz 15:30:12 M Offset 14.00 G S INE_ABS	RBW I.000 MHz 1.000 MHz 1.000 MHz 1.000 MLz 1.000 MLz <t< td=""><td>Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 0.96757 GHz 9.67623 GHz 11.63209 GHz 1</td><td>Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm</td><td>ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB</td></t<>	Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 0.96757 GHz 9.67623 GHz 11.63209 GHz 1	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 dBm	813.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 1.000 GHz 12.750 GHz 15:30:12 M Offset 14.00 G S INE_ABS	RBW I.000 MHz 1.000 MHz 1.000 MHz 1.000 MLz 1.000 MLz <t< td=""><td>Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 0.96757 GHz 9.67623 GHz 11.63209 GHz 1</td><td>Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm</td><td>ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB</td></t<>	Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 0.96757 GHz 9.67623 GHz 11.63209 GHz 1	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 dBm -70 dBm -70 dBm Start 30.0 MHz gurfuos Emissions Renge Low 30.000 MHz 827.750 MHz 1.000 GHz 1.000 GHz 1.000 GHz 1.000 GHz 10.000 GHz 10.000 GHz Spectrum Ref Level 24.00 dB Spectrum 20 dbylit Abnzk Lino 20 dbylit Abnzk 20 dbylit Abnzk Lino 20 dbylit Abnzk 20 dbylit Abn	813.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 1.000 GHz 12.750 GHz 15:30:12 M Offset 14.00 G S INE_ABS	RBW I.000 MHz 1.000 MHz 1.000 MHz 1.000 MLz 1.000 MLz <t< td=""><td>Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 0.96757 GHz 9.67623 GHz 11.63209 GHz 1</td><td>Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm</td><td>ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB</td></t<>	Frequency 724,19984 MHz 879.09789 MHz 2.86664 GHz 0.96757 GHz 9.67623 GHz 11.63209 GHz 1	Power Abs -34.22 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 dBm	813.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 1.000 GHz 12.750 GHz 15:30:12 M Offset 14.00 G S INE_ABS	RBW I.000 MHz 1.000 MHz 1.000 MHz 1.000 MLz 1.000 MLz <t< td=""><td>Frequency 724,1994.Mtg 729,0996.Mtg 2.86664 GHz 979.09780 Mtg 2.86664 GHz 9.67623 GHz 9.67623 GHz 9.67623 GHz 9.67623 GHz 11.6320 GHz 9.67623 GHz 10.6320 GHz</td><td>Power Abs -34.42 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm -28.66 dBm -28.66 dBm -29.94 dBm -29.94</td><td>ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB</td></t<>	Frequency 724,1994.Mtg 729,0996.Mtg 2.86664 GHz 979.09780 Mtg 2.86664 GHz 9.67623 GHz 9.67623 GHz 9.67623 GHz 9.67623 GHz 11.6320 GHz 9.67623 GHz 10.6320 GHz	Power Abs -34.42 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.41 dBm -28.66 dBm -28.66 dBm -29.94	ALImit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -13.86 dB
-60 dBm70 dB	B13.250 MHz J.000 GHz J.000 GHz J.000 GHz J.000 GHz J.000 GHz J.000 GHz J.2750	RBW I.000 MHz 1.000 MHz 1.000 MHz 38 Mode A Dablaz PABS August Strategies 1.000 MHz August Strategies 1.000 MHz<	Frequency 724,10964 Mag. 729,0739 Mag. 2,8664 Grd; 2,96654 Grd; 9,67623 Grd; 9,0723 Grd; 11,03200 Grd; 11,03200 Grd; 11,03200 Grd; ito Sweep 10,000 Grd; <td>Power Abs -34.42 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.64 dBm -28.64</td> <td>ALimit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -15.41 dB -13.86 d</td>	Power Abs -34.42 dBm -33.06 dBm -31.75 dBm -27.19 dBm -28.64	ALimit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -15.41 dB -13.86 d
-60 dBm	813.250 MHz	RBW I.000 MHz 1.000 MHz 1.000 MHz 38 Mode At PABS 1.000 MHz 1.000 MHz 1.000 MHz 36006 RBW 1.000 MHz 1.000 MHz	Frequency 724,1094.4Mz 729,0929.4Mz 2.8664.6Mz 2.9664.6Mz 6.99675.6Mz 9.6723.0Mz 11.63200.6Mz 11.63200.6Mz 11.63200.6Mz to Sweep	Power Abs -34.42 dBm -34.02 dBm -31.05 dBm -27.19 dBm -27.19 dBm -28.41 dBm -28.61 dBm -	ALimit -21.22 dB -20.06 dB -18.75 dB -14.19 dB -15.41 dB -15.41 dB -13.86 dB
60 dBm	813.250 MHz 1.000 GHz 3.000 GHz 1.000 GHz 10.000 GHz 12.750 GHz 12.750 GHz 12.750 GHz 12.750 GHz 12.750 GHz 15:30:12 M M Offset 14.00 G S. LINE_ABS 10.000 GHz 10.000 GHz 10.000 GHz 10.000 GHz 12.750 GHz 13.750 GHz 14.750 GHz 14.750 GHz 14.750 GHz 14.750 GHz 14.750 GHz 15.750 GHz 14.750 GHz 14.750 GHz 15.750 GHz	RBW I.000 MHz 1.000 MHz 1.000 MHz 0.000 MLz 1.000 MHz <t< td=""><td>Frequency 724,10964 Mag. 729,0739 Mag. 2,8664 Grd; 2,96654 Grd; 9,67623 Grd; 9,0723 Grd; 11,03200 Grd; 11,03200 Grd; 11,03200 Grd; ito Sweep 10,000 Grd; <td>Power Abs -34.42 d6m -33.06 d6m -31.75 d8m -27.19 d8m -22.6 66 d8m -22.6 66 d8m -28.66 d8m -29.60 d8m -29.60 d8m -29.60 d8m -20.60 d8m -20</td><td>ALimit -21.22 dB -21.22 dB -20.06 dB -10.75 dB -14.19 dB -15.41 dB -13.86 dB</td></td></t<>	Frequency 724,10964 Mag. 729,0739 Mag. 2,8664 Grd; 2,96654 Grd; 9,67623 Grd; 9,0723 Grd; 11,03200 Grd; 11,03200 Grd; 11,03200 Grd; ito Sweep 10,000 Grd; <td>Power Abs -34.42 d6m -33.06 d6m -31.75 d8m -27.19 d8m -22.6 66 d8m -22.6 66 d8m -28.66 d8m -29.60 d8m -29.60 d8m -29.60 d8m -20.60 d8m -20</td> <td>ALimit -21.22 dB -21.22 dB -20.06 dB -10.75 dB -14.19 dB -15.41 dB -13.86 dB</td>	Power Abs -34.42 d6m -33.06 d6m -31.75 d8m -27.19 d8m -22.6 66 d8m -22.6 66 d8m -28.66 d8m -29.60 d8m -29.60 d8m -29.60 d8m -20.60 d8m -20	ALimit -21.22 dB -21.22 dB -20.06 dB -10.75 dB -14.19 dB -15.41 dB -13.86 dB



Frequency Stability

Test Conditions	Middle Channel	CDMA BC10 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0131	
40	Normal Voltage	0.0131	
30	Normal Voltage	0.0130	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0129	
0	Normal Voltage	0.0130	
-10	Normal Voltage	0.0130	PASS
-20	Normal Voltage	0.0131	
-30	Normal Voltage	0.0128	
20	Maximum Voltage	0.0131	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0128	

Note: Normal Voltage = 3.87V; Battery End Point (BEP) = 3.6V; Maximum Voltage =4.45V



Appendix B. Test Results of Radiated Test

Top Antenna:

				CDMA BO	C10(1xRTT)				
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1635.8	-69.27	-13	-56.27	-78.47	-72.50	3.98	9.36	Н
	2453.7	-66.82	-13	-53.82	-80.32	-70.37	4.85	10.55	Н
Lowest	3271.6	-66.12	-13	-53.12	-81.74	-71.05	5.50	12.58	Н
Lowest	1635.8	-69.69	-13	-56.69	-78.44	-72.92	3.98	9.36	V
	2453.7	-66.84	-13	-53.84	-80.31	-70.39	4.85	10.55	V
	3271.6	-65.47	-13	-52.47	-81.19	-70.40	5.50	12.58	V
	1641	-69.27	-13	-56.27	-78.34	-72.52	4.00	9.40	Н
	2461.5	-66.46	-13	-53.46	-79.96	-70.03	4.88	10.60	Н
Middle	3282	-65.76	-13	-52.76	-81.38	-70.69	5.52	12.60	Н
Middle	1641	-69.83	-13	-56.83	-78.53	-73.08	4.00	9.40	V
	2461.5	-66.61	-13	-53.61	-80.08	-70.18	4.88	10.60	V
	3282	-65.79	-13	-52.79	-81.51	-70.72	5.52	12.60	V
	1646.2	-69.74	-13	-56.74	-78.81	-72.91	4.10	9.42	Н
	2469.3	-67.14	-13	-54.14	-80.66	-70.72	4.90	10.63	Н
Llighaat	3292.4	-66.31	-13	-53.31	-81.89	-71.23	5.55	12.62	Н
Highest	1646.2	-70.12	-13	-57.12	-78.82	-73.29	4.10	9.42	V
	2469.3	-66.98	-13	-53.98	-80.47	-70.56	4.90	10.63	V
	3292.4	-66.19	-13	-53.19	-81.84	-71.11	5.55	12.62	V

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





Bottom Antenna:

				CDMA BO	C10(1xRTT)				
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1635.8	-69.63	-13	-56.63	-78.83	-72.86	3.98	9.36	Н
	2453.7	-63.16	-13	-50.16	-76.66	-66.71	4.85	10.55	Н
Lowest	3271.6	-66.26	-13	-53.26	-81.88	-71.19	5.50	12.58	Н
Lowest	1635.8	-70.09	-13	-57.09	-78.84	-73.32	3.98	9.36	V
	2453.7	-62.97	-13	-49.97	-76.44	-66.52	4.85	10.55	V
	3271.6	-66.33	-13	-53.33	-82.05	-71.26	5.50	12.58	V
	1641	-69.75	-13	-56.75	-78.82	-73.00	4.00	9.40	Н
	2461.5	-64.67	-13	-51.67	-78.17	-68.24	4.88	10.60	Н
Middle	3282	-66.49	-13	-53.49	-82.11	-71.42	5.52	12.60	Н
wildule	1641	-70.38	-13	-57.38	-79.08	-73.63	4.00	9.40	V
	2461.5	-64.04	-13	-51.04	-77.51	-67.61	4.88	10.60	V
	3282	-66.35	-13	-53.35	-82.07	-71.28	5.52	12.60	V
	1646.2	-69.77	-13	-56.77	-78.84	-72.94	4.10	9.42	Н
	2469.3	-63.50	-13	-50.50	-77.02	-67.08	4.90	10.63	Н
Llighoot	3292.4	-66.28	-13	-53.28	-81.86	-71.20	5.55	12.62	Н
Highest	1646.2	-70.24	-13	-57.24	-78.94	-73.41	4.10	9.42	V
	2469.3	-64.51	-13	-51.51	-78.00	-68.09	4.90	10.63	V
	3292.4	-66.11	-13	-53.11	-81.76	-71.03	5.55	12.62	V

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