# **FCC** Report

Applicant: Connected Holdings LLC

Address of Applicant: 4740 Von Karman Avenue Suite 120, Newport Beach, CA

92660

**Equipment Under Test (EUT)** 

Product Name: CDMA GPS Tracker

Model No.: MG-2C

FCC ID: 2AEB4AC11

Applicable standards: FCC CFR Title 47 Part 2:2014

FCC CFR Title 47 Part22 Subpart H:2014 FCC CFR Title 47 Part24 Subpart E:2014

Date of sample receipt: April 22, 2015

Date of Test: April 23 ~ April 30, 2015

**Date of report issued:** May 08, 2015

Test Result: PASS \*

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.

## 2 Version

Version No.	Date	Description
00	May 08, 2015	Original

Prepared By:	Sam. Gao	Date:	May 08, 2015
	Project Engineer		
Check By:	hank. yan	Date:	May 08, 2015
	Reviewer		

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## 4 Test Summary

Test Item	Section in CFR 47	Result
	Part 2.1046	
RF Output Power	Part 22.913 (a)(2)	Pass
	Part 24.232 (c)	
Modulation Characteristics	Part 2.1047	Pass
	Part 2.1049	
99% & -26 dB Occupied Bandwidth	Part 22.917	Pass
	Part 24.238	
	Part 2.1051	
Spurious Emissions at Antenna Terminal	Part 22.917 (a)	Pass
	Part 24.238 (a)	
	Part 2.1053	
Field Strength of Spurious Radiation	Part 22.917 (a)	Pass
	Part 24.238 (a)	
Out of hand amission, Rand Edge	Part 22.917 (a)	Door
Out of band emission, Band Edge	Part 24.238 (a)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

Pass: The EUT complies with the essential requirements in the standard.

## **5** General Information

## **5.1 Client Information**

Applicant:	Connected Holdings LLC
Address of Applicant: 4740 Von Karman Avenue Suite 120, Newport Beach, CA 92660	
Manufacturer:	Asiatelco Technologies Co.
Address of Manufacturer:	#289 Bisheng Road, Building-8, 3F Zhangjiang Hi-Tech Park, Pudong, Shanghai, 201204 China

## 5.2 General Description of EUT

-	
Product Name:	CDMA GPS Tracker
Model No.:	MG-2C
Support Networks:	1xRTT
Support Bands:	CDMA Cellular / CDMA PCS
TX Frequency:	CDMA2000 BC0: 824.70MHz ~ 848.31MHz
	CDMA2000 BC1: 1851.25MHz ~ 1908.75MHz
Modulation type:	QPSK
Hardware Version:	P2
Software Version:	MC891G_NC_1.0.4T
Antenna type:	Spring loaded antenna
Antenna gain:	2dBi(CDMA Cellular)
	2dBi(CDMA PCS)
Power supply:	DC 12V

## 5.3 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

### 5.4 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

## 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC Approval
SWTEC	AC/DC Adapter	SW012S120100C1	N/A	Verification

## 6 Test Instruments list

6	lest instruments list						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber ZhongYu Electron		9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 27 2015	Mar. 26 2016	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015	
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016	
9	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016	
10	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016	
11	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016	
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015	
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015	
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015	
15	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016	
16	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	May 09 2014	May 08 2015	
17	Signal Generator	Rohde & Schwarz	SML03	GTS236	May 09 2014	May 08 2015	
18	Temp. Humidity/ Barometer	Oregon Scientific	BA-888	GTS248	May 09 2014	May 08 2015	
19	D.C. Power Supply	Instek	PS-3030	GTS232	NA	NA	
20	Splitter	Agilent	11636B	GTS237	May 09 2014	May 08 2015	
21	Power meter	Rohde & Schwarz	NRVS	GTS238	May 09 2014	May 08 2015	
22	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 4 2014	Dec. 3 2015	

## 7 System test configuration

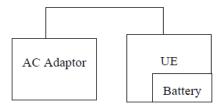
#### 7.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 7.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

#### 7.3 Configuration of Tested System



Remote Side



### 7.4 Description of Test modes

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 as follows:

30 MHz to 10000 MHz for CDMA2000 BC0.

30 MHz to 20000 MHz for CDMA2000 BC1.

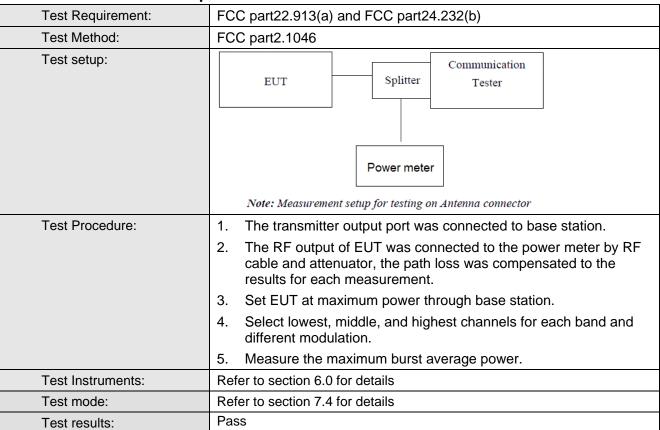
Test modes						
Band Radiated Conducted						
CDMA2000 BC0	1XRTT Link Mode	1XRTT Link Mode				
CDMA2000 BC1	1XRTT Link Mode	1XRTT Link Mode				

Note: The maximum RF output power levels are 1xRTT RC3 SO32 (+F-SCH) mode for CDMA2000 BC0 and 1xRTT RC1 SO55 mode for CDMA2000 BC1 on QPSK Link; only these modes were used for all tests.

The conducted power tables are as follows:

Conducted Power (dBm)						
Band	CDMA2000 BC0		CDMA2000 BC1		C1	
Channel	1013	384	777	25	600	1175
Frequency (MHz)	824.70	836.52	848.31	1851.25	1880.00	1908.75
1xRTT RC1 SO55	24.40	23.97	23.82	23.39	23.82	23.86
1xRTT RC3 SO55	24.21	23.68	23.55	23.25	23.59	23.64
1xRTT RC3 SO32 (+F-SCH)	24.45	23.98	23.88	23.37	23.75	23.71
1xRTT RC3 SO32 (+SCH)	24.18	23.64	23.61	23.21	23.52	23.47

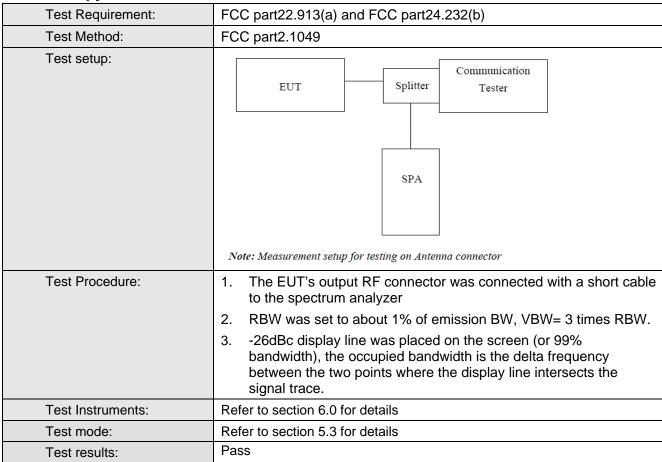
### 7.5 Conducted Peak Output Power



#### Measurement Data

EUT Mode	Channel	Frequency (MHz)	PK power (dBm)	
	1013	824.70	24.45	
CDMA2000 BC0	384	836.52	23.98	
	777	848.31	23.88	
	25	1851.25	23.39	
CDMA2000 BC1	600	1880.00	23.82	
	1175	1908.75	23.86	

#### 7.6 Occupy Bandwidth



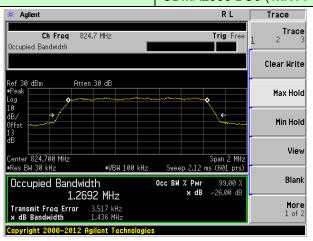
#### Measurement Data

Mode of the Para							
EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)			
	1013	824.70	1.2692	1.436			
CDMA2000 BC0	384	836.52	1.2674	1.430			
	777	848.31	1.2663	1.425			
	25	1851.25	1.2754	1.451			
CDMA2000 BC1	600	1880.00	1.2690	1.457			
	1175	1908.75	1.2682	1.443			

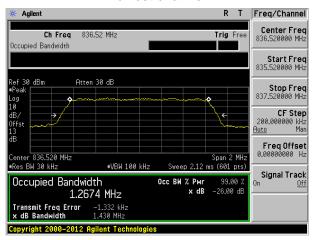
Test plot as follows:

#### Test band:

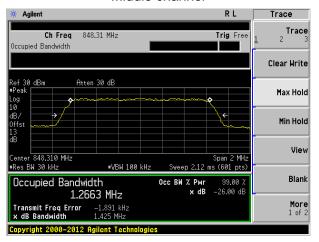
#### CDMA2000 BC0 (1xRTT RC3 SO32 (+F-SCH))



#### Lowest channel



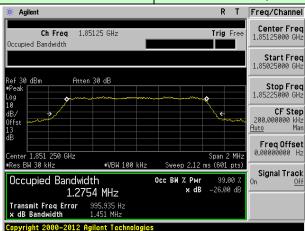
#### Middle channel



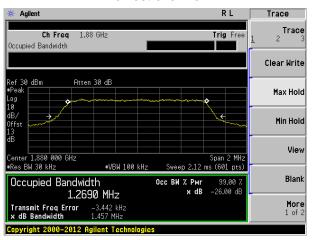
Highest channel

#### Test band:

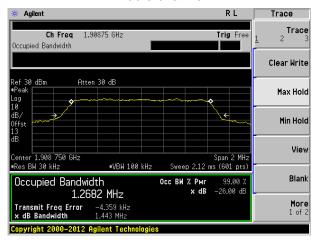
#### CDMA2000 BC1 (1xRTT RC1 SO55)



#### Lowest channel



#### Middle channel



Highest channel

## 7.7 MODULATION CHARACTERISTIC

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

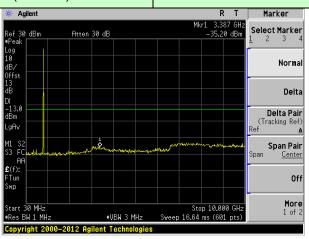
### 7.8 Out of band emission at antenna terminals

Test Requirement:	FCC part22.917(a) and FCC part24.238(a)			
Test Method:	FCC part2.1051			
Limit:	-13dBm			
Test setup:	EUT Splitter Communication Tester  Filter  SPA			
	Note: Measurement setup for testing on Antenna connector			
Test Procedure:	<ol> <li>The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.</li> <li>For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic.</li> <li>Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol>			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

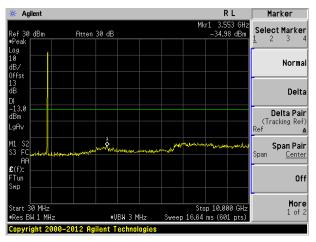
Test plot as follows:

#### Test Mode: 1xRTT RC3 SO32 (+F-SCH)

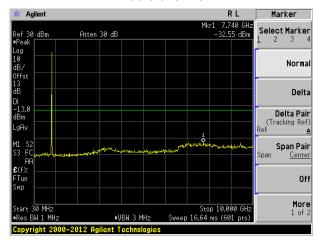
#### CDMA2000 BC0



#### Lowest channel



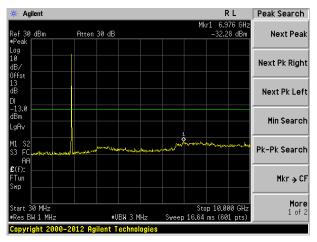
#### Middle channel

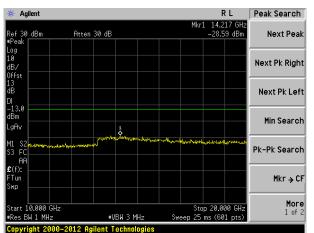


Highest channel

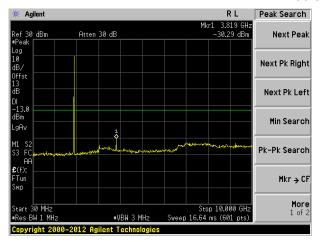
#### Test Mode: 1xRTT RC1 SO55 CDMA2000 BC1 Agilent RL Peak Search Agilent R L Peak Search Mkr1 7.591 GH -32.02 dBm 14.400 GH: -28.85 dBm Next Peak Atten 30 dB Next Peak Next Pk Right Next Pk Right Next Pk Left Next Pk Left DI -13.0 dBm Min Search Min Search gAv. gAv. Pk-Pk Search Pk-Pk Search AA **£**(f): Mkr → CF Mkr → CF Tun Stop 10.000 GHz Sweep 16.64 ms (601 pts) More 1 of 2 tart 10.000 GHz Stop 20.000 GHz Sweep 25 ms (601 pts) ≢VBW 3 MHz #VBW 3 MHz Copyright 2000-2012 Agilent Technologies Copyright 2000-2012 Agilent Technologies

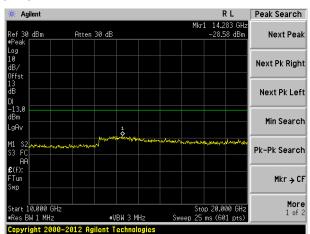
#### Lowest channel





#### Middle channel



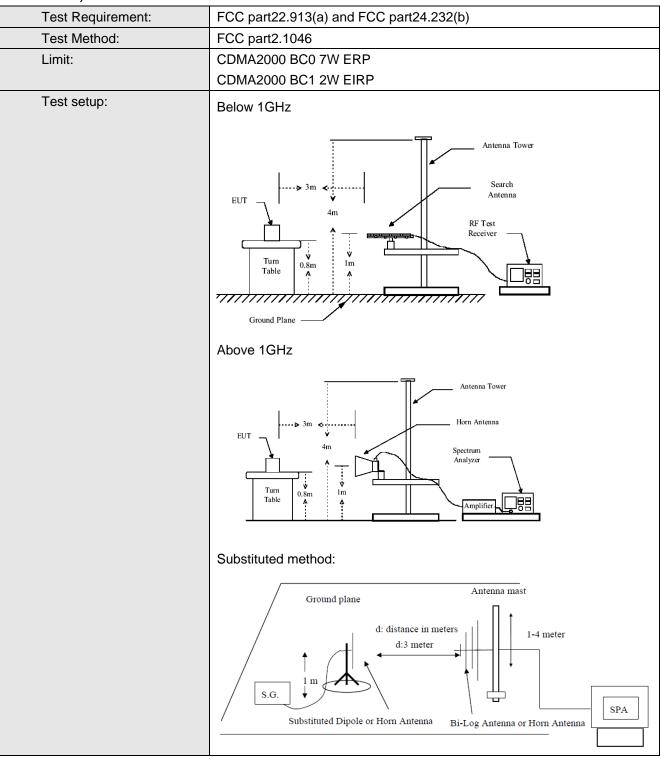


Highest channel

#### Band Edge: Test Mode: 1xRTT RC3 SO32 (+F-SCH) **CDMA2000 BC0** \* Agilent R T Trace Trace 824.000 MHz -13.83 dBm Mkr1 849.000 MHz -13.55 dBm Trace Trace Atten 30 dB Atten 30 dB Clear Write Clear Write Max Hold Max Hold Min Hold Min Hold View View Blank Blank Span 2 MHz #Sweep 300 ms (601 pts) More 1 of 2 Span 2 MHz #Sweep 300 ms (601 pts) More 1 of 2 Center 849.000 MHz ≢Res BW 20 kHz 824.000 MHz ≢VBW 62 kHz ≢VBW 62 kHz Highest channel Lowest channel Test Mode: 1xRTT RC1 SO55 CDMA2000 BC1 Agilent R T Marker R T Marker Mkr1 1.849 997 GHz -31.88 dBm Mkr1 1.910 020 GHz -31.70 dBm Select Marker Select Marker Atten 30 dB Atten 30 dB Normal Normal Delta Delta **Delta Pair** (Tracking Ref) Ref Span Pair Center Span Pair Center Off Off More 1 of 2 Span 2 MHz #Sweep 300 ms (601 pts) More 1 of 2 Span 2 MHz #Sweep 300 ms (601 pts) 1.850 000 GHz 1.910 000 GHz

Lowest channel Highest channel

## 7.9 ERP, EIRP Measurement



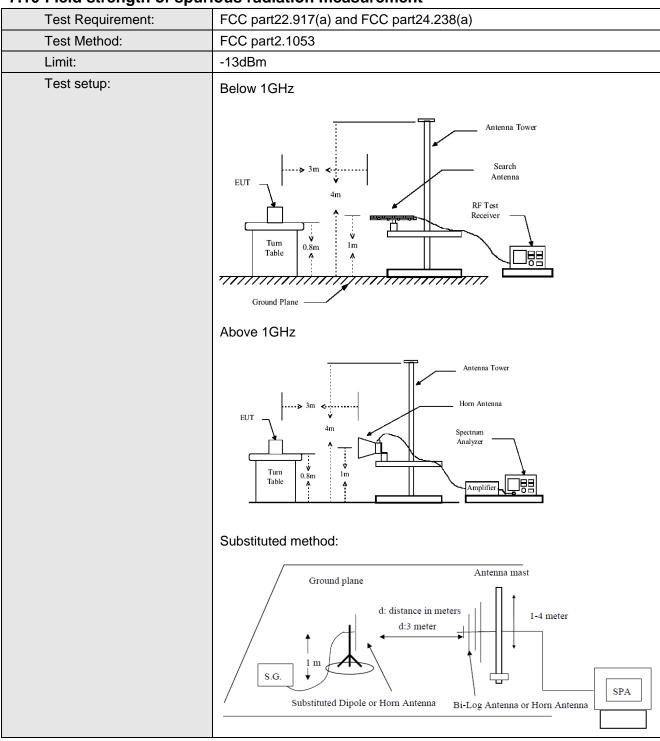
Test Procedure:	The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
	<ol> <li>During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.</li> </ol>
	3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows:
	ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable Loss (dB)
	4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:
	EIRP = S.G. output (dBm) + Antenna Gain (dBi) - Cable Loss (dB)
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			V	23.87		Pass
		Н	Н	21.79		
	Lowest	E1	V	18.27	38.45	
	Lowest		Н	21.72	36.43	
		E2	V	17.49		
		E2	Н	20.02		
		Н	V	23.62	38.45	Pass
CDMA2000		11	Н	21.40		
BC0 (1xRTT	Middlo	Middle E1	V	17.92		
RC3 SO32	Middle		Н	21.39		
(+F-SCH))		E2	V	18.53		
		E2	Н	20.36		
		Н	V	23.51		
			Н	20.03	38.45	Pass
High	Highost	E1	V	16.70		
	riigilest	Highest E1	Н	19.51		
		F0	V	16.38		
		E2	Н	19.73		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result	
		Н	V	23.45		Pass	
		П	Н	21.31			
	Lowest	E1	V	17.74	33.00		
	Lowest		Н	21.13	33.00		
		E2	V	16.85			
		E2	Н	19.33			
		Н	V	23.01		Pass	
		11	Н	20.67	33.00		
CDMA2000	Middlo	Middle E1	V	17.11			
	BC1 (1xRTT Middle RC1 SO55)		Н	20.52			
,			E2	V	17.80		
				E2	Н	19.59	
		Н	V	22.93			
			Н	19.38	33.00	Pass	
Llighoot	Highost	Highest E1	V	15.99			
	nignest		Н	18.74			
		F0.	V	15.86			
		E2	Н	19.16			

## 7.10 Field strength of spurious radiation measurement



Test Procedure:	The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
	<ol> <li>During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li> </ol>
	<ol> <li>The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels).</li> <li>Once spurious emission was identified, the power of the emission was determined using the substitution method.</li> </ol>
	<ol> <li>The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.</li> </ol>
	ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) -
	Cable Loss (dB)
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Test mode:	CDMA2000 BC0 ( +F-S		Test channel:	Lowest	
Fragues ov (MHz)	Spurious	Emission	Limit (dDm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Nesuit	
1649.40	Vertical	-35.95			
2474.10	V	-38.69			
3298.80	V	-40.95	-13.00	Pass	
4123.50	V	-43.11			
4948.20	V				
1649.40	Horizontal	-41.19			
2474.10	Н	-45.06	]		
3298.80	Н	-46.63	-13.00	Pass	
4123.50	Н	-49.36	]		
4948.20	Н				
Test mode:	CDMA2000 BC0 ( (+F-S	1xRTT RC3 SO32 SCH))	Test channel:	Middle	
- (141)	Spurious			5 "	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1673.04	Vertical	-37.32			
2509.56	V	-39.59	-	Pass	
3346.08	V	-41.48	-13.00		
4182.60	V	-43.29	-		
5019.12	V		-		
1673.04	Horizontal	-41.69			
2509.56	Н	-44.91		Pass	
3346.08	Н	-46.22	-13.00		
4182.60	Н	-48.50			
5019.12	Н				
Test mode:	CDMA2000 BC0 ( (+F-S		Test channel:	Highest	
- (NALL)	Spurious	Emission	1: :: (15.)	5 4	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1696.62	Vertical	-37.55			
2544.93	V	-39.58			
3393.24	V	-41.25	-13.00	Pass	
4241.55	V	-42.87			
5089.86	V		1		
1696.62	Horizontal	-41.44			
2544.93	Н	-44.31			
3393.24	Н	-45.47	-13.00	Pass	
4241.55	Н	-47.50		. 400	
5089.86	Н				

Test mode:	CDMA2000 BC1 (	1xRTT RC1 SO55)	Test channel:	Lowest	
Fraguesia (MIII-)	Spurious	Emission	Lineit (dDne)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Nesuit	
3702.50	Vertical	-37.13			
5553.75	V	-39.51			
7405.00	V	-41.47	-13.00	Pass	
9256.25	V	-43.37			
11107.50	V				
3702.50	Horizontal	-41.70			
5553.75	Н	-45.07			
7405.00	Н	-46.41	-13.00	Pass	
9256.25	Н	-48.78			
11107.50	Н				
Test mode:	CDMA2000 BC1 (	1xRTT RC1 SO55)	Test channel:	Middle	
Fraguency (MHz)	Spurious	Emission	Limit (dPm)	Popult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3760.00	Vertical	-34.90			
5640.00	V	-37.36		Pass	
7520.00	V	-39.38	-13.00		
9400.00	V	-41.35			
11280.00	V				
3760.00	Horizontal	-39.62		Pass	
5640.00	Н	-43.09			
7520.00	Н	-44.50	-13.00		
9400.00	Н	-46.94			
11280.00	Н				
Test mode:	CDMA2000 BC1 (	1xRTT RC1 SO55)	Test channel:	Highest	
Eroguenov (MHz)	Spurious	Emission	Limit (dDm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3817.50	Vertical	-36.05			
5726.25	V	-38.43			
7635.00	V	-40.40	-13.00	Pass	
9543.75	V	-42.30			
11452.50	V				
3817.50	Horizontal	-40.62			
5726.25	Н	-44.00			
7635.00	Н	-45.35	-13.00	Pass	
9543.75	Н	-47.72			
11452.50	Н				

#### Remark:

- 1.
- The emission behaviour belongs to narrowband spurious emission. Remark"---" means that the emission level is too low to be measured
- 2. 3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

## 7.11 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	2.5ppm
Test setup:	Spectrum analyzer  EUT  Att.  Variable Power Supply
Tast are sadine.	Note: Measurement setup for testing on Antenna connector
Test procedure:	<ol> <li>The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>RF output was connected to a frequency counter or spectrum</li> </ol>
	analyzer via feed through attenuators.
	The EUT was placed inside the temperature chamber.
	4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
	5. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
	6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Reference Frequency: CDMA2000 BC0 (1xRTT RC3 SO32 (+F-SCH)) Middle channel=384 channel=836.52MHz						
Power supplied	Tamparatura (90)	Frequency error		Limit (mmm)	D 11	
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result	
	-30	41	0.0492			
	-20	46	0.0544			
	-10	40	0.0474			
	0	34	0.0404			
12.0	10	38	0.0457	2.5	Pass	
	20	34	0.0404			
	30	51	0.0614	] ,		
	40	47	0.0561			
	50	46	0.0544	]		
Reference Frequen	cy: CDMA2000 BC1	(1xRTT RC1 SO5	5) Middle chann	el=600 channel	=1880.00MHz	
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (nnm)	Result	
(Vdc)	remperature ( C)	Hz	ppm	Limit (ppm)	Result	
	-30	65	0.0345			
	-20	81	0.0429			
	-10	65	0.0345			
	0	52	0.0275			
12.0	10	65	0.0345	2.5	Pass	
	20	54	0.0289			
	30	99	0.0526			
	40	83	0.0442			
	50	78	0.0415			

## 7.12 Frequency stability V.S. Voltage measurement

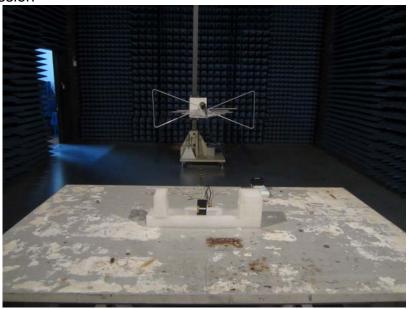
· , , , ,	5. Voltage measurement
Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	Spectrum analyzer  EUT  Att.  Variable Power Supply
	Note: Measurement setup for testing on Antenna connector
Test procedure:	<ol> <li>Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> </ol>
	3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

### Measurement Data

Reference Frequency: CDMA2000 BC0 (1xRTT RC3 SO32 (+F-SCH)) Middle channel=384 channel=836.52MHz						
Tomporoture (°C)	Power supplied	Frequency error		Limpit (mmm)	Daguit	
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result	
	10	46	0.0545			
25	12	50	0.0600	2.5	Pass	
	30	55	0.0655			
Reference Freque	ency: CDMA2000 BC	1 (1xRTT RC1 SC	D55) Middle chan	nel=600 channe	=1880MHz	
Tomporeture (°C)	Power supplied	Frequency error		Limit (mmm)	Decult	
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result	
	10	80	0.0427			
25	12	96	0.0509	2.5	Pass	
	30	96	0.0509			

# 8 Test Setup Photo

Radiated Emission

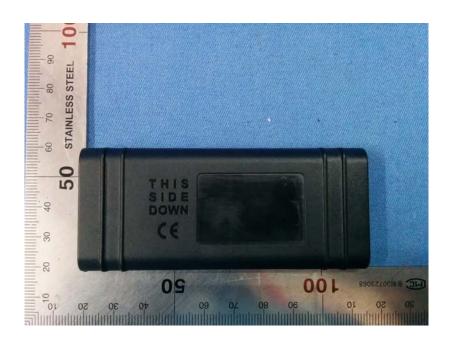




# 9 EUT Constructional Details









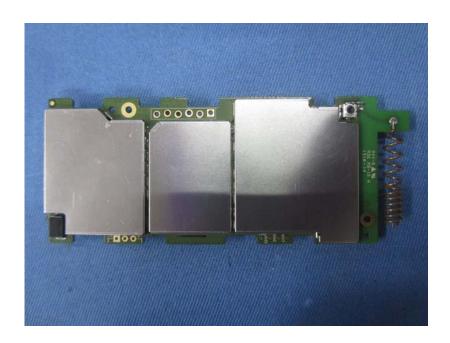


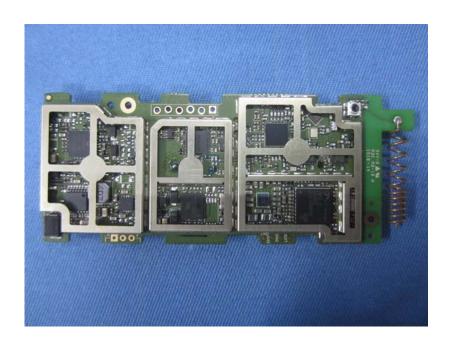












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