FCC Report

Applicant: Montage Systems, Inc.

Address of Applicant: 65 Enterprise, Aliso Viejo, CA, United States, 92656

Equipment Under Test (EUT)

Product Name: GPS Tracker

Model No.: S3000, S3000-S, S3000-V, S3000-S-G, S3000-V-G,

S3000-S-BG, S3000-V-BG, S3000-S-BA, S3000-V-BA,

S3000-VB-G, S3000-SB-G, S3000-SB, SC2000-SB, S3000-VB

FCC ID: 2AAQ6TC05

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: July 14, 2015

Date of Test: July 15-17, 2015

Date of report issued: July 20, 2015

Test Result: PASS *

^{*} In the configuration tested, the EUT complied with the standards specified above.

2 Version

Version No.	Date	Description
00	July 20, 2015	Original

Prepared By:	Edward.Parl	Date:	July 20, 2015
	Project Engineer		
Check By:	hank. yen	Date:	July 20, 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)	
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.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

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5 General Information

5.1 Client Information

Applicant:	Montage Systems, Inc.
Address of Applicant:	65 Enterprise, Aliso Viejo, CA, United States, 92656
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:	GPS Tracker
Model No.:	S3000, S3000-S, S3000-V, S3000-S-G, S3000-V-G, S3000-S-BG,
	S3000-V-BG, S3000-S-BA, S3000-V-BA, S3000-VB-G, S3000-SB-G,
	S3000-SB, SC2000-SB, S3000-VB
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:	P5
Antenna type:	Spring loaded antenna
	GPS ceramic antenna
Antenna gain:	2dBi(Spring loaded antenna)
	5dBi(GPS ceramic antenna)
Adaptor Information:	DC 12V

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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

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

Tel: 0755-27798480 Fax: 0755-27798960

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6 Test Instruments list

0	1 est 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	July. 03 2015	July. 02 2020	
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. 03 2015	July. 02 2016	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July. 06 2015	July. 05 2016	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	July. 06 2015	July. 05 2016	
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. 03 2015	July. 02 2016	
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July. 03 2015	July. 02 2016	
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016	
15	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016	
16	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	July. 03 2015	July. 02 2016	
17	Signal Generator	Rohde & Schwarz	SML03	GTS236	July. 03 2015	July. 02 2016	
18	Temp. Humidity/ Barometer	Oregon Scientific	BA-888	GTS248	July. 03 2015	July. 02 2016	
19	D.C. Power Supply	Instek	PS-3030	GTS232	NA	NA	
20	Splitter	Agilent	11636B	GTS237	July. 03 2015	July. 02 2016	
21	Power meter	Rohde & Schwarz	NRVS	GTS238	July. 03 2015	July. 02 2016	
22	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 4 2014	Dec. 3 2015	

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7 System test configuration

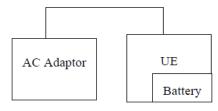
7.1 EUT Configuration

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.

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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				

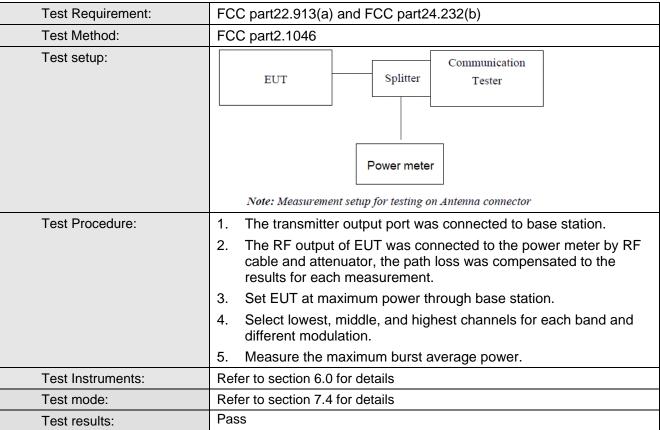
Note: The maximum RF output power levels are 1xRTT RC1 SO55 mode for CDMA2000 BC0 and 1xRTT RC1 SO55 mode for CDMA2000 BC1 on QPSK Link; only these modes were used for all tests.

The conducted power tables are as follows:

Conducted Power (dBm)						
Band	CI	CDMA2000 BC0			DMA2000 B	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	24.74	24.60	24.43	24.13	23.97	23.78
1xRTT RC3 SO32	24.72	24.55	24.29	23.65	23.22	23.34
1xRTT RC3 SO32 (+F-SCH)	24.53	24.48	24.22	23.85	23.94	23.71
1xRTT RC3 SO32 (+SCH)	24.51	24.44	24.18	23.80	23.91	23.65

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7.5 Conducted Peak Output Power

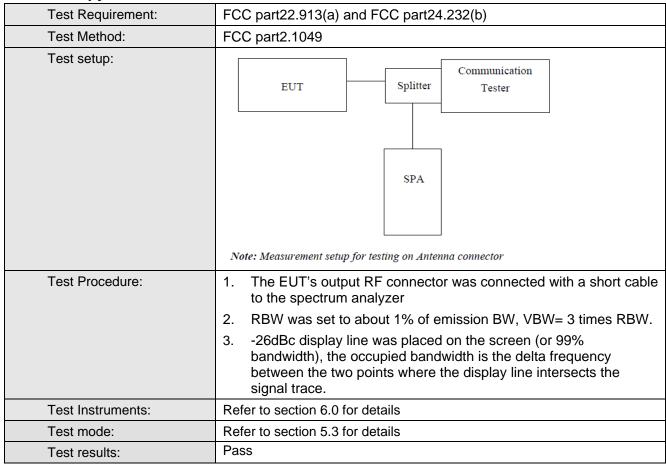


Measurement Data

EUT Mode	Channel	Frequency (MHz)	PK power (dBm)
	1013	824.70	24.74
CDMA2000 BC0	384	836.52	24.60
	777	848.31	24.43
	25	1851.25	24.13
CDMA2000 BC1	600	1880.00	23.97
	1175	1908.75	23.78

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7.6 Occupy Bandwidth



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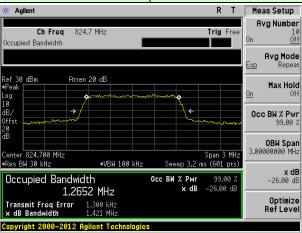
Measurement Data

EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)
	1013		1.2652	1.421
CDMA2000 BC0	A2000 BC0 384		1.2749	1.469
	777	848.31	1.2685	1.429
	25	1851.25	1.2762	1.442
CDMA2000 BC1	600	1880.00	1.2676	1.443
	1175	1908.75	1.2727	1.492

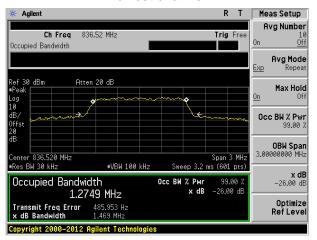
Test plot as follows:

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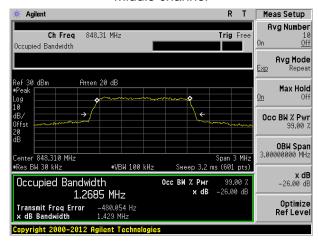
Test band: CDMA2000 BC0 (1xRTT RC1 SO55)



Lowest channel



Middle channel



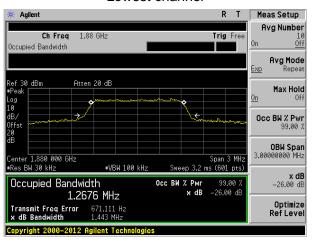
Highest channel

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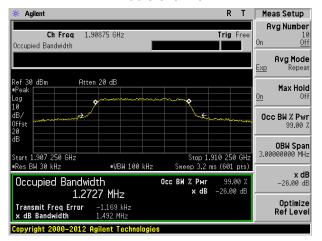
Test band: CDMA2000 BC1 (1xRTT RC1 SO55)



Lowest channel



Middle channel



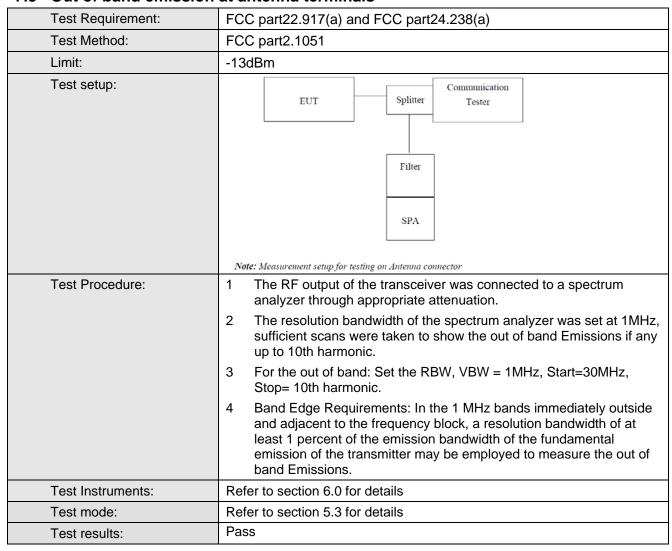
Highest channel

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7.7 MODULATION CHARACTERISTIC

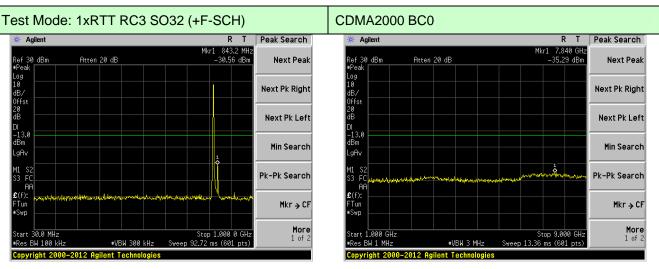
According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

7.8 Out of band emission at antenna terminals

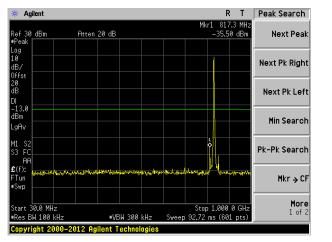


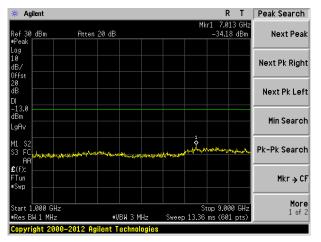
Test plot as follows:

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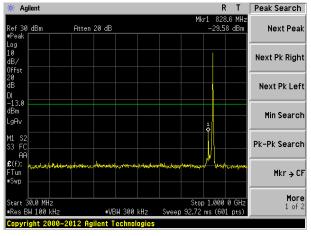


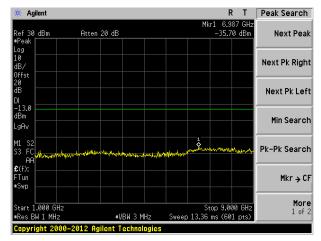
Lowest channel



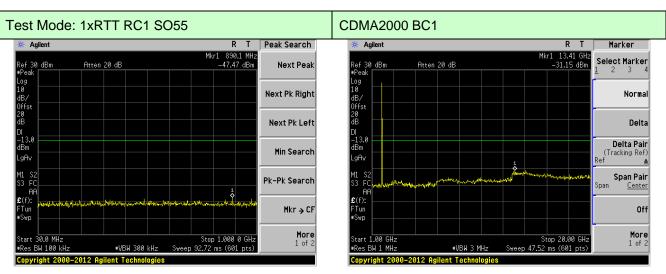


Middle channel

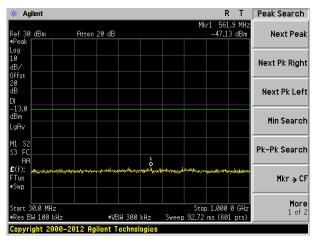


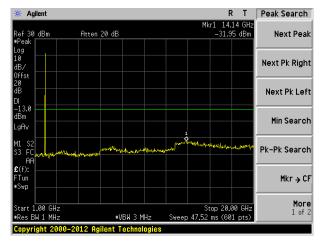


Highest channel

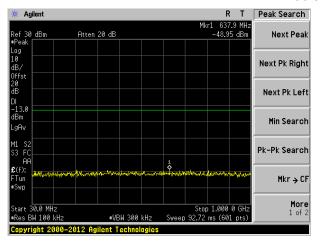


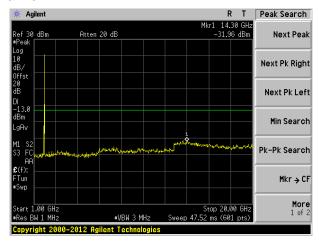
Lowest channel



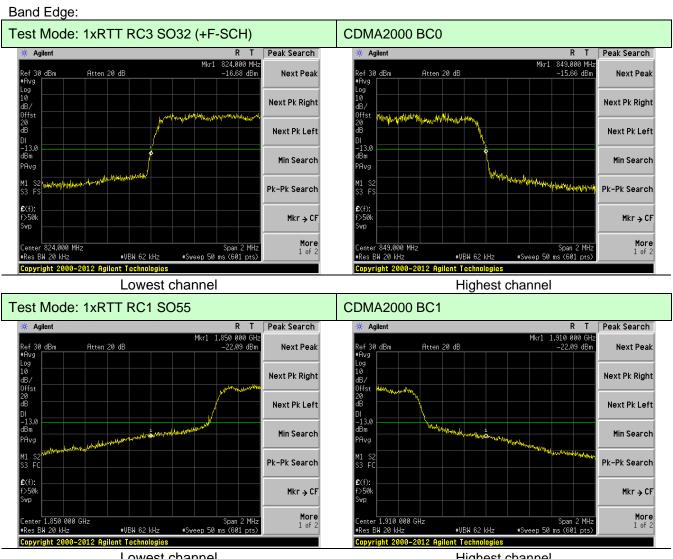


Middle channel



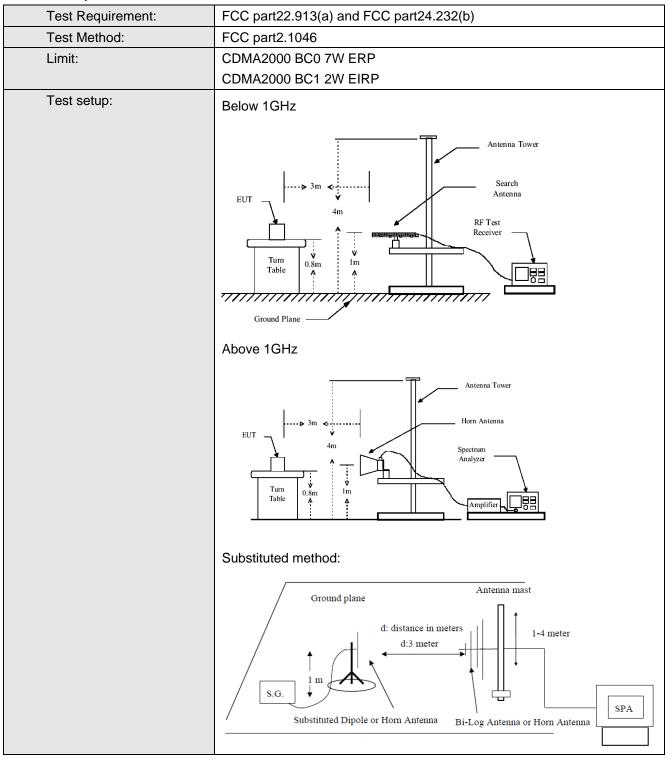


Highest channel



Lowest channel Highest channel

7.9 ERP, EIRP Measurement



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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.
	 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.
	 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

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EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
		Н	V	24.33		Pass
			Н	22.31		
	Lowest	E1	V	18.84	38.45	
	Lowest		Н	22.35	36.43	ra55
		E2	V	18.19		
		E2	Н	20.77		
		Н	V	24.28		Pass
	Middle	П	Н	22.20	38.45	
CDMA2000 BC0 (1xRTT		E1 E2	V	18.78		
RC1 SO55)			Н	22.31		
,			V	19.30		
			Н	21.20		
		Н	V	23.17		
		П	Н	20.74	38.45	Dana
	Highest E1	E1	V	17.46		
			Н	20.33		Pass
		F0	V	16.94		
		E2	Н	20.35		

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EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
		Н	V	23.92		Pass
			Н	21.84		
	Lowest	E1	V	18.32	33.00	
	Lowest		Н	21.78	33.00	
		E2	V	17.56		
		EZ.	Н	20.09		
		Н	V	23.68		Pass
	Middle	П	Н	21.48	33.00	
CDMA2000 BC1 (1xRTT		E1	V	18.00		
RC1 SO55)			Н	21.47		
ŕ		E2	V	18.60		
			Н	20.44		
		Н	V	23.58	33.00	Dana
		11	Н	20.10		
	Highest	E1	V	16.77		
		""	Н	19.59		Pass
		E2	V	16.44		
		E2	Н	19.79		

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7.10 Field strength of spurious radiation measurement

Test Requirement:	FCC part22.917(a) and FCC part24.238(a)
Test Method:	FCC part2.1053
Limit:	-13dBm
Test setup:	Below 1GHz Antenna Tower Search Antenna Tum Table O.8m Antenna RF Test Receiver
	Ground Plane ————————————————————————————————————
	Antenna Tower Horn Antenna FUT Turn Table Amplifier Amplifier
	Substituted method:
	Ground plane d: distance in meters d:3 meter I-4 meter S.G. Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna

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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.
	 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.
	 The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.
	4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.
	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

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Test mode:	CDMA2000 BC0 (1xRTT RC1 SO55)	Test channel:	Lowest	
Fraguency (MUz)	Spurious	Emission	Limit (dPm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1649.40	Vertical	-35.77			
2474.10	V	-38.52			
3298.80	V	-40.79	-13.00	Pass	
4123.50	V	-42.95			
4948.20	V				
1649.40	Horizontal	-41.03			
2474.10	Н	-44.91			
3298.80	Н	-46.48	-13.00	Pass	
4123.50	Н	-49.23			
4948.20	Н				
Test mode:	CDMA2000 BC0 (1xRTT RC1 SO55)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (MHZ)	Polarization	Level (dBm)	Limit (dbiii)	Result	
1673.04	Vertical	-37.17			
2509.56	V	-39.46			
3346.08	V	-41.35	-13.00	Pass	
4182.60	V	-43.16			
5019.12	V				
1673.04	Horizontal	-41.56			
2509.56	Н	-44.79		Pass	
3346.08	Н	-46.10	-13.00		
4182.60	Н	-48.39			
5019.12	Н				
Test mode:	CDMA2000 BC0 (1xRTT RC1 SO55)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (Miriz)	Polarization	Level (dBm)	Limit (ubin)	Result	
1696.62	Vertical	-37.43			
2544.93	V	-39.47			
3393.24	V	-41.15	-13.00	Pass	
4241.55	V	-42.76			
5089.86	V				
1696.62	Horizontal	-41.33			
2544.93	Н	-44.21			
3393.24	Н	-45.37	-13.00	Pass	
4241.55	Н	-47.41			
5089.86	Н				

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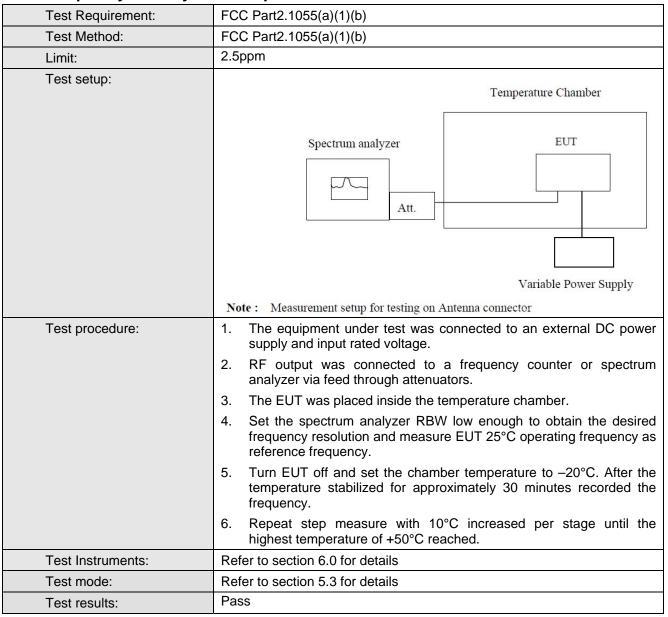
Test mode:	CDMA2000 BC1 (1xRTT RC1 SO55)	Test channel:	Lowest	
Frequency (MHz)	Spurious	Emission	Limit (dPm)	Result	
Frequency (MHZ)	Polarization	Level (dBm)	Limit (dBm)	Resuit	
3702.50	Vertical	-36.72			
5553.75	V	-39.11			
7405.00	V	-41.10	-13.00	Pass	
9256.25	V	-43.00			
11107.50	V				
3702.50	Horizontal	-41.32			
5553.75	Н	-44.71			
7405.00	Н	-46.08	-13.00	Pass	
9256.25	Н	-48.47			
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	-34.27		Pass	
5640.00	V	-36.75			
7520.00	V	-38.81	-13.00		
9400.00	V	-40.78			
11280.00	V				
3760.00	Horizontal	-39.04		Pass	
5640.00	Н	-42.55			
7520.00	Н	-43.98	-13.00		
9400.00	Н	-46.46			
11280.00	Н				
Test mode:	CDMA2000 BC1 (1xRTT RC1 SO55)	Test channel:	Highest	
Гто с с. с	Spurious	Emission	Lineit (dDne)	Desuit	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3817.50	Vertical	-35.53			
5726.25	V	-37.93			
7635.00	V	-39.93	-13.00	Pass	
9543.75	V	-41.83			
11452.50	V				
3817.50	Horizontal	-40.14			
5726.25	Н	-43.55			
7635.00	Н	-44.93	-13.00	Pass	
9543.75	Н	-47.33			
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.
- The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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7.11 Frequency stability V.S. Temperature measurement



Measurement Data

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Reference Frequency: CDMA2000 BC0 (1xRTT RC1 SO55) Middle channel=384 channel=836.52MHz						
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (ppm)	Result	
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)		
	-30	38	0.0455			
	-20	42	0.0502			
	-10	37	0.0439			
	0	31	0.0376			
12.0	10	35	0.0423	2.5	Pass	
	20	31	0.0376			
	30	47	0.0565			
	40	43	0.0518			
	50	42	0.0502			
Reference Frequence	cy: CDMA2000 BC1	(1xRTT RC1 SO5	5) Middle chann	el=600 channel	=1880.00MHz	
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (ppm)	Result	
(Vdc)	Temperature (C)	Hz	ppm	Еппі (рріп)		
	-30	77	0.0411			
	-20	95	0.0507			
	-10	77	0.0411			
	0	62	0.0331			
12.0	10	77	0.0411	2.5	Pass	
	20	65	0.0347			
	30	116	0.0619			
	40	98	0.0523			
	50	92	0.0491	1		

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7.12 Frequency stability V.S. 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 Variable Power Supply Note: Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.
	2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
	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

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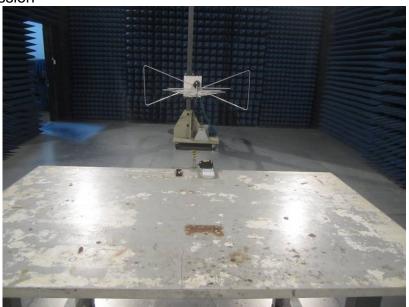
Measurement Data

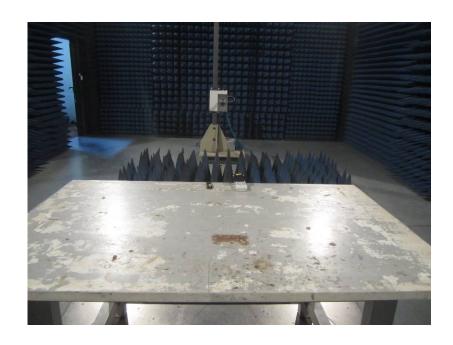
Reference Frequency: CDMA2000 BC0 (1xRTT RC1 SO55) Middle channel=384 channel=836.52MHz						
Temperature (°C)	Power supplied	Freque	ncy error	Limit (nnm)	Result	
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)		
	10	41	0.0489		Pass	
25	12	45	0.0541	2.5		
	30	50	0.0592			
Reference Freque	ency: CDMA2000 BC	1 (1xRTT RC1 S0	D55) Middle chan	nel=600 channel	=1880MHz	
Temperature (°C)	Power supplied	Frequency error		Limit (none)	Result	
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result	
	10	59	0.0314			
25	12	70	0.0371	2.5	Pass	
	30	70	0.0371			

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8 Test Setup Photo

Radiated Emission

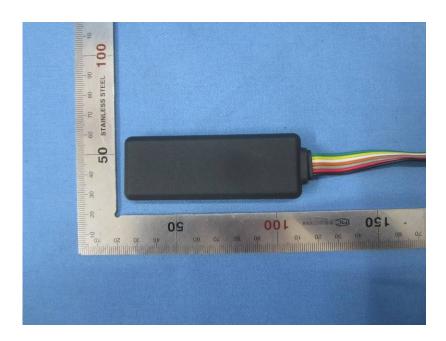


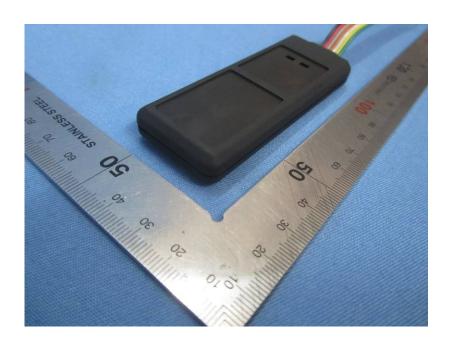


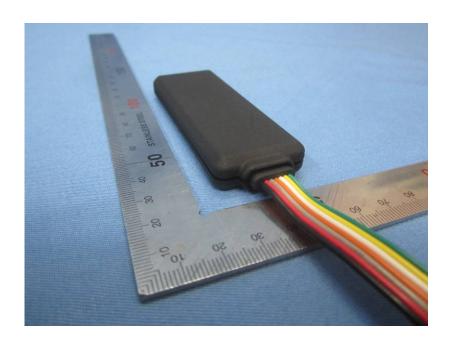
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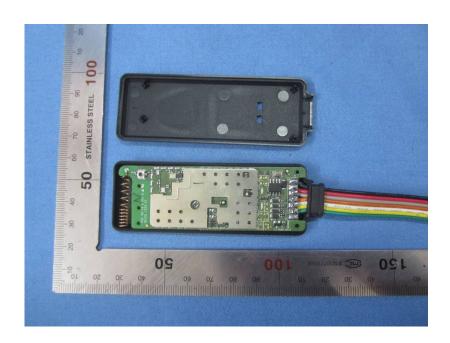
9 EUT Constructional Details



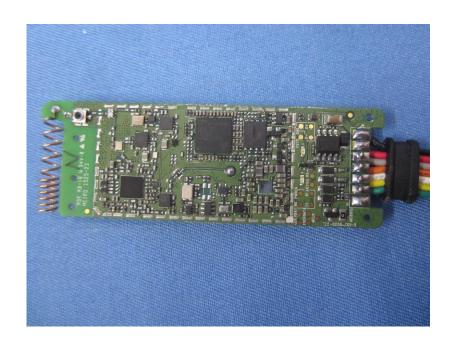


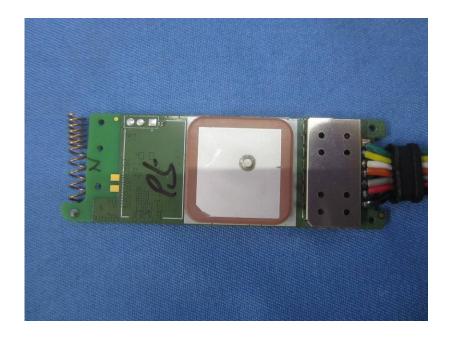




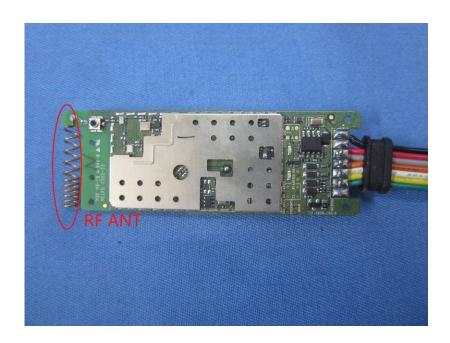












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