



HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.

PRODUCT COMPLIANCE DIVISION
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CERTIFICATE OF COMPLIANCE (FCC Part 24, 22 Certification)

Sewon Telecom Ltd.
980 Park Center Drive, Suite B Vista,
CA 92081, U.S.A
FRN: 0010110963

Date of Issue : December 24, 2003
Test Report No.: HCT-SAR03-1202
Test Site: HYUNDAI CALIBRATION & CERTIFICATION
TECHNOLOGIES CO., LTD.
FRN: 0005-8642- 21

FCC ID:

PFZSCP-500

APPLICANT:

Sewon Telecom Ltd.

EUT Type:	PC-Wireless Card (CDMA / PCS)
Tx Frequency:	824.70 — 848.31 MHz (CDMA) 1851.25 — 1908.75 MHz (PCS CDMA)
Rx Frequency:	869.70 — 893.31 MHz (CDMA) 1931.25 — 1988.75 MHz (PCS CDMA)
Max. RF Output Power:	0.254W ERP CDMA (24.05dBm) 0.205W EIRP PCS CDMA (23.11dBm)
Trade Name/Model(s):	Sewon Telecom / SCP-500
Emission Designator(s):	1M28F9W (CDMA) / 1M28F9W (PCS)
FCC Classification:	PCS Licensed Transmitter (PCB)
Application Type:	Certification
FCC Rule Part(s):	§24(E), §22(H), §2
Maximum SAR:	0.365W/kg CDMA Body SAR 1.110W/kg PCS CDMA Body SAR
Antenna Specifications:	Manufacturer: Amphenol KAE Co., Ltd. PN: SW-01-01-003 (Length= 51.7 ± 3.0mm)

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ? 2.947.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Hyundai C-Tech Co., Ltd. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti- Drug Abuse Act of 1998, 21 U.S. C. 853(a)

Report prepared by : Ki-Soo Kim

Manager of Product Compliance Team

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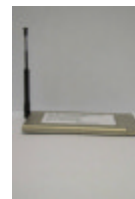


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1. General

1.1. Notes

This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ?2.947.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Hyundai C-Tech Co., Ltd. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti- Drug Abuse Act of 1998, 21 U.S. C. 853(a)

1.2. Testing laboratory

HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD
SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI, KYOUNGKI-DO, 467-701, KOREA
Phone : +82 31 639 8518 Fax : +82 31 639 8525
E-mail : kisookim@hct.co.kr
Homepage: <http://www.hct.co.kr>

1.3. Information of applicant

Name : Sewon Telecom Ltd.
Address : 980 Park Center Drive. Suite B Vista, CA 92081, U.S.A
Attention : Mr. Peter Y. Won
Phone : 760-727-8004
Fax : 760-727-8761
E-mail : peter_won@sewon-tele.com
Homepage : <http://www.sewon-tele.com>

1.4. Application details

Date of test : December 10, 2003 – December 12, 2003

1.5. Test item

Manufacturer : Sewon Telecom Ltd.
Model Name. : SCP-500
Description : PC Wireless Card (CDMA/PCS)
FCC ID : PFZSCP-500
Serial Number : PFZ20031200001
Tx Frequency : 824.70 – 848.31 MHz (CDMA)
1851.25 – 1908.75 MHz (PCSCDMA)
Rx Frequency : 869.70 – 893.31 MHz (CDMA)
1931.25 – 1988.75 MHz (PCSCDMA)
Type of modulation : OQPSK
Channels : 1013~777(CDMA), 25~1175(PCS)
Antenna Type : Retractable (Retracted/Extended)
Power supply : Power by the Laptop PC battery via PCMCIA Connector
Output Power : 0.254W ERP CDMA (24.05dBm)
0.205W EIRP PCS CDMA (23.11dBm)
Max. SAR : 0.365 mW/gCDMA Body SAR
1.110 mW/gCDMA Body SAR
FCC Classification : PCS Licensed Transmitter (PC B)

1.6. Test standards

FCC Part §2, §22(H), §24(E)

2. Measurement report

2.1. Summary of test results

Test case	Section	Reference	Result
Effective Radiated Power(Radiated)	3	§22.913(a) / §24.232(b)(c)	PASS
Occupied Bandwidth(Conducted)	4	§2.1049(h)(i) / §24.238(a)(b)	PASS
Emission in Receiver Critical Band	5	§22.917(f)	PASS
Spurious Emissions at Antenna Terminals	6	§2.1051	PASS
Field Strength of Spurious Radiation	7	§2.1053	PASS
Frequency Stability	8	§2.1055(a)(1)(b) / §24.235	PASS

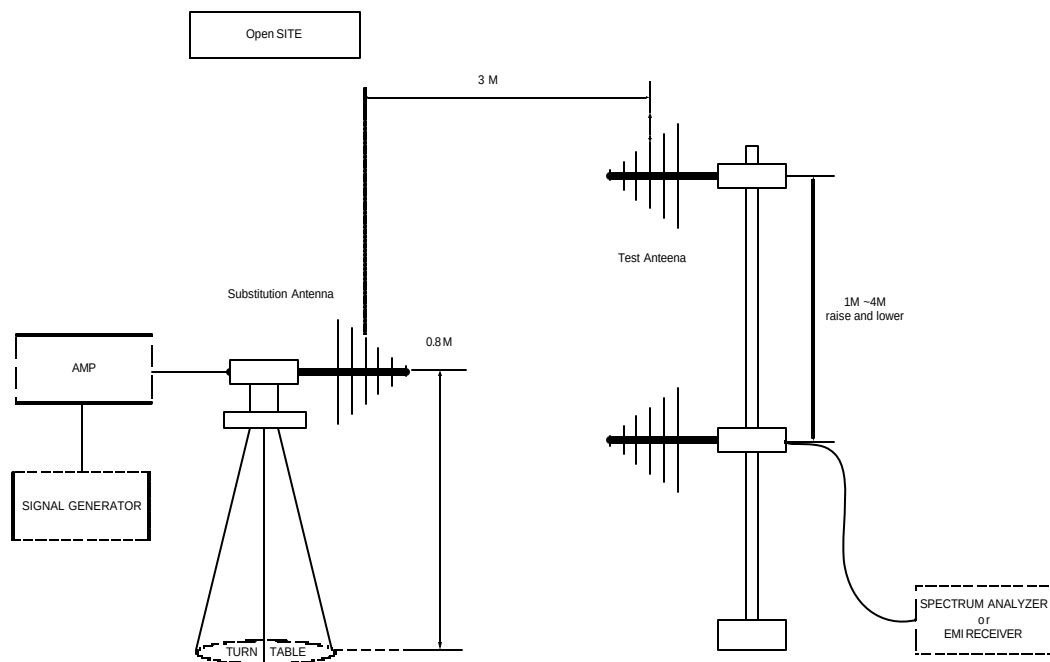
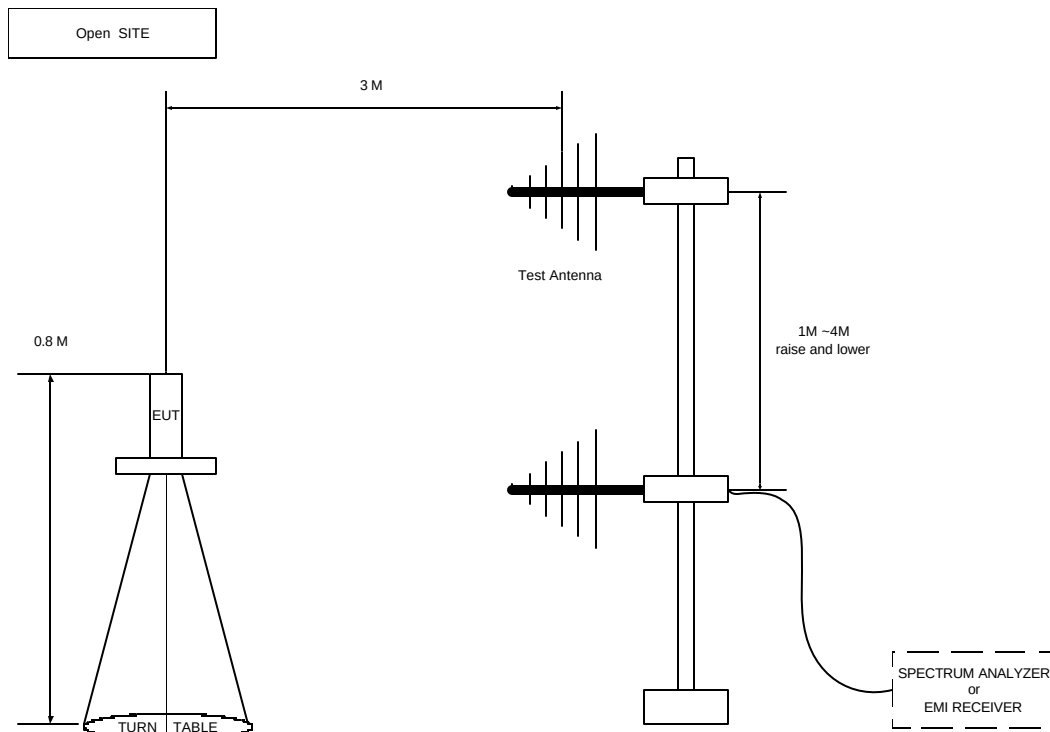
2.2. Test equipment list

TYPE / MODEL	Calibration Date	S/N
Spectrum Analyzer (20Hz~40GHz) R&S ESI40	Dec. 02, 2003	1088.7410
Spectrum Analyzer(100Hz~26.5GHz) R3273	April 03, 2003	J04821
Signal Generator HP 8373ED (10MHz ~ 20GHz)	July 03, 2003	US8710152
Signal Generator E4437B(50MHz~4GHz)	March 11, 2003	US39260498
Power Meter E4416A	Feb. 06, 2003	GB41291412
Power Sensor E9327A(50MHz~18GHz)	Oct. 24, 2003	US40440910
Power Amp A0825-4343-R(800~2.5GHz) +43dB	Sep. 02, 2003	A00450
Power divider HP11636A(DC~18GHz)	Feb. 03, 2003	N/A
AMF-4D-001180-26-10P(0.1~18GHz)	Feb. 03, 2003	671009
AMF-6B-180265-35-10P(18~26.5GHz)	Feb. 03, 2003	667624
AMF-4D-260400-45-6P(26~40GHz)	Feb. 03, 2003	671314
Attenuator E4416A(DC~18GHz, 30W, 30dB)	Jan. 27, 2003	51161, 51162
Notch filter NO308372(824~849MHz 90dBc reject)	March 7, 2003	2592-1
Dipole Antenna UHAP	June 03, 2003	557
Dipole Antenna UHAP	June 03, 2003	558
Horn Antenna BBHA 9120D(1~18GHz)	June 03, 2003	1099
Horn Antenna BBHA 9120D(1~18GHz)	March 03, 2003	1201
Horn Antenna BBHA 9170(15~40GHz)	Feb. 03, 2003	BBHA9170124
CDMA Mobile Station Test Set HP8924C	April 01, 2003	US39063847
PCS Interface HP83236B(1.7 ~ 2.0GHz)	April 01, 2003	3711J04841
LISN EMCO 3825/2	July 03, 2003	9706-1070
LISN Rohde & Schwarz ESH2-Z5	July 03, 2003	9706-1071
Antenna VULB9160 (25MHz~1800MHz)	June 03, 2003	91071107
Turn Table EMCO 1060-06	N/A	3241
Antenna Position Tower HD240	N/A	1253A
AC Power Source PACIFIC Magnetic Module	N/A	45321
AC Power Source PACIFIC 360AMX	N/A	22B87

3. Effective Radiated Power(Radiated)

Specification : FCC part 22.913(a) , part 24.232(b)(c)

3.1. Setup



3.2. Method of Measurements

The measurement facilities used for this test have been documented in previous filings with the commission pursuant to section 2.948.

The open field test site is situated in open field with ground screen whose site attenuation characteristics meet ANSI C63.4 –1992. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotatable wooden platform mounted at three from the antenna mast.

- 1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.
- 2) During the test , the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with / 2 dipole antenna(PCS band use Horn antenna) that is connected to a calibrated signal generator .
- 5) Increase the signal generator output till the field strength meter's level is equal to the item(4).
- 6) The signal generator output level is the rating of effective radiated power(ERP).
- 7) The instrument settings used (RBW/ VBW) during ERP/ EIRP output power measurement are as RBW 3MHz, VBW 3MHz

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

3.3. Test environment

Temperature :	25.4 ?
Relative humidity:	65 %
Air pressure	883 mbar

3.4. Test Results

3.4.1. CDMA

Freq. Tuned (MHz)	Conducted Power (dBm, W)	SPA reading (dBm)	S/G (dBm)	Amp (dB)	Antenna (dBd)	POL (H/V)	ERP (dBm, W)
824.70	24.00 dBm 0.251 W	-7.04	-35.80	47	3.65	V	14.85 dBm 0.031 W
		1.01	-27.64	47	3.65	H	23.01 dBm 0.200 W
835.89	24.12 dBm 0.258 W	-5.75	-34.10	47	3.75	V	16.65 dBm 0.046 W
		1.52	-26.70	47	3.75	H	24.05 dBm 0.254 W
848.31	23.92 dBm 0.246 W	-6.98	-35.72	47	3.75	V	15.03 dBm 0.032 W
		0.97	-28.09	47	3.75	H	22.66 dBm 0.185 W

ERP(dBm) = Signal generator(dBm)(including Cable loss) + Amp(dB) + Antenna Gain(dBd)

ANALYZER SETTING RBW=VBW= 3MHz

Maximum ERP EUT antenna position = ' OUT ? IN, Position = ? X ' Y ? Z

3.4.2. PCS CDMA

Freq. Tuned (MHz)	Conducted Power (dBm, W)	SPA reading (dBm)	S/G (dBm)	Amp (dB)	Antenna (dBi)	POL (H/V)	EIRP (dBm, W)
1851.25	23.55 dBm 251 mW	-23.17	-50.15	47	10.00	V	6.85 dBm 0.005 W
		-7.4	-34.39	47	10.00	H	22.61 dBm 0.182 W
1880.00	24.46 dBm 279 mW	-21.67	-48.86	47	10.00	V	8.14 dBm 0.007 W
		-7.01	-33.89	47	10.00	H	23.11 dBm 0.205 W
1908.75	23.81 dBm 240 mW	-21.21	-48.37	47	10.00	V	8.63 dBm 0.007 W
		-7.74	-34.09	47	10.00	H	22.91 dBm 0.195 W

EIRP(dBm) = Signal generator(dBm)(including Cable loss) + Amp(dB) + Antenna Gain(dBi)

ANALYZER SETTING RBW=VBW= 3MHz

Maximum EIRP EUT Antenna position = ' OUT ? IN, Position = ? X ' Y ? Z

NOTES:

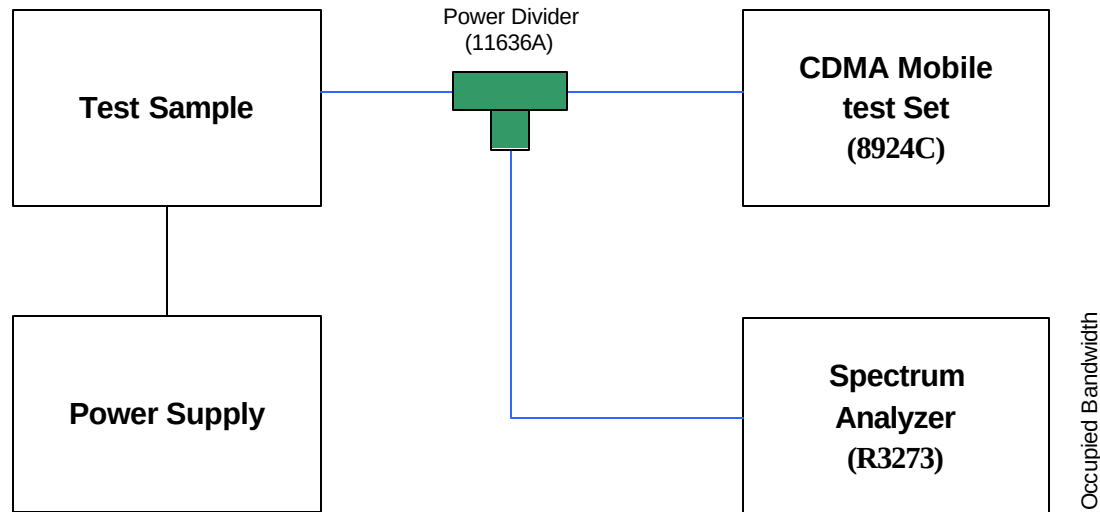
Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

4. Occupied Bandwidth(Conducted)

Specification : FCC part 2.1049(h)(i), part 24.238(a)(b)

4.1. Setup



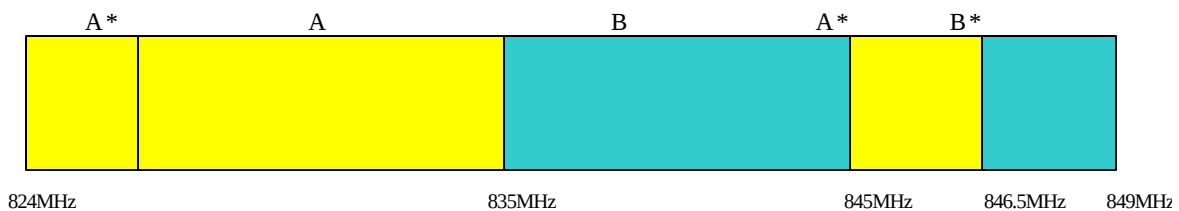
4.2. Method of Measurements

Testing was performed with the EUT connected to a 6dB splitter and then to the Spectrum analyzer. The base station simulator was connected to the other port of the splitter to establish a call.

(Analyzer Setting RBW=VBW=30KHz , Detector= SAMPLE)

4.3. Limits

All block edge emission is below $43+10\log(P)$ dB and Limits level is -13dBm

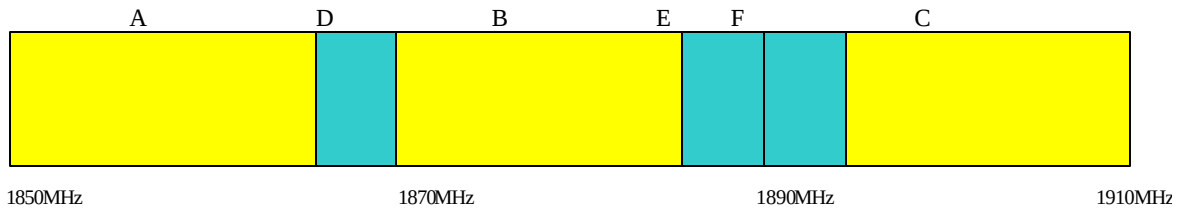


BLOCK 1: 824 – 835 MHz (A* Low + A)

BLOCK 2: 835 – 845 MHz (B)

BLOCK 3: 845 – 846.5 MHz (A* High)

BLOCK 4: 846.5 – 849 MHz (B*)



BLOCK 1: 1850 – 1865 MHz (A)

BLOCK 2: 1865 – 1870 MHz (D)

BLOCK 3: 1870 – 1885 MHz (B)

BLOCK 4: 1885 – 1890 MHz (E)

BLOCK 5: 1890 – 1895 MHz (F)

BLOCK 6: 1895 – 1910 MHz (C)

4.4. Test environment

Temperature :	+24.7 ?
Relative humidity:	61 %
Air pressure	882 mbar

4.5. Test Results

4.5.1. CDMA

	BLOCK1 (dBm)	BLOCK2 (dBm)	BLOCK3 (dBm)	BLOCK4 (dBm)	LIMIT (dBm)
Lower	-15.65	-20.03	-18.23	-17.26	-13
upper	-15.47	-18.24	-17.14	-15.30	-13

4.5.2. PCS CDMA

	BLOCK1 (dBm)	BLOCK2 (dBm)	BLOCK3 (dBm)	BLOCK4 (dBm)	BLOCK5 (dBm)	BLOCK6 (dBm)	LIMIT (dBm)
Lower	-21.81	-21.21	-21.45	-24.34	-22.62	-22.49	-13
upper	-20.94	-20.78	-22.42	-23.79	-22.09	-22.51	-13

4.5.3. 99% bandwidth

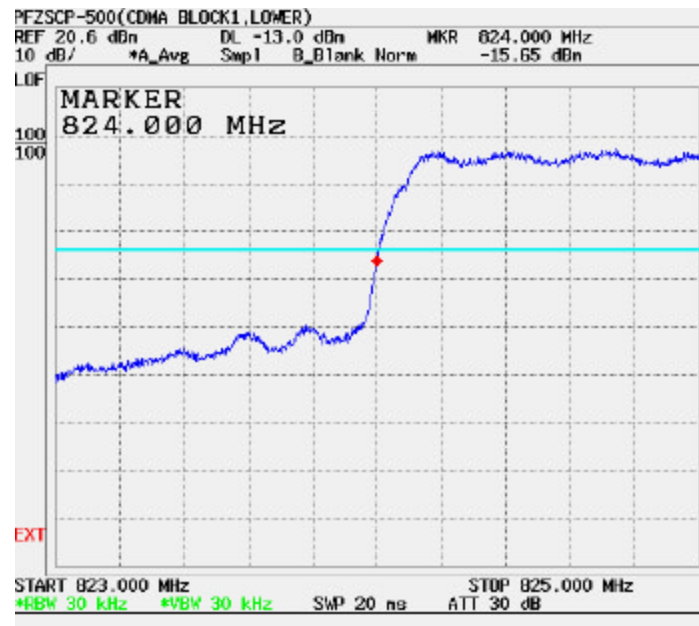
CHANNEL	CDMA (MHz)	CHANNEL	PCS CDMA (MHz)
363	1.280	600	1.280

4.6. Plots

4.6.1. CDMA

(1) BLOCK1

Lower



Upper



(2) BLOCK2

Lower



Upper



(3) BLOCK3

Lower



Upper



(4) BLOCK4

Lower



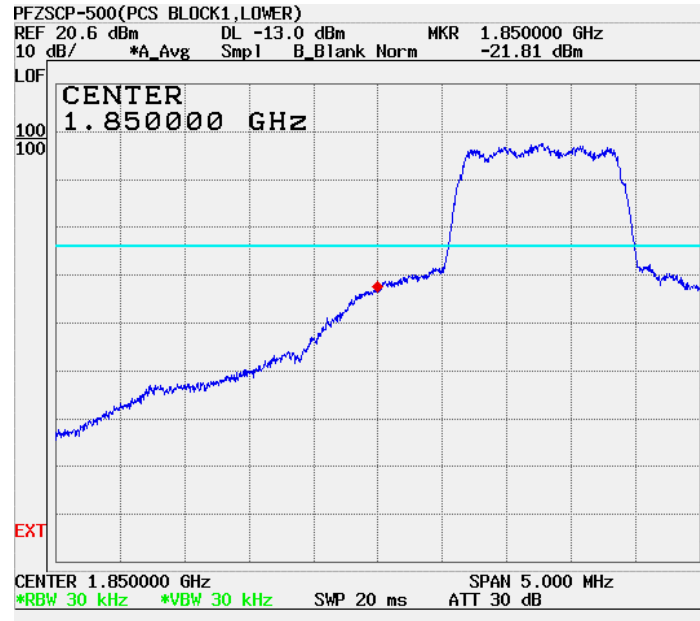
Upper



4.6.2. PCS CDMA

(1) BLOCK1

Lower

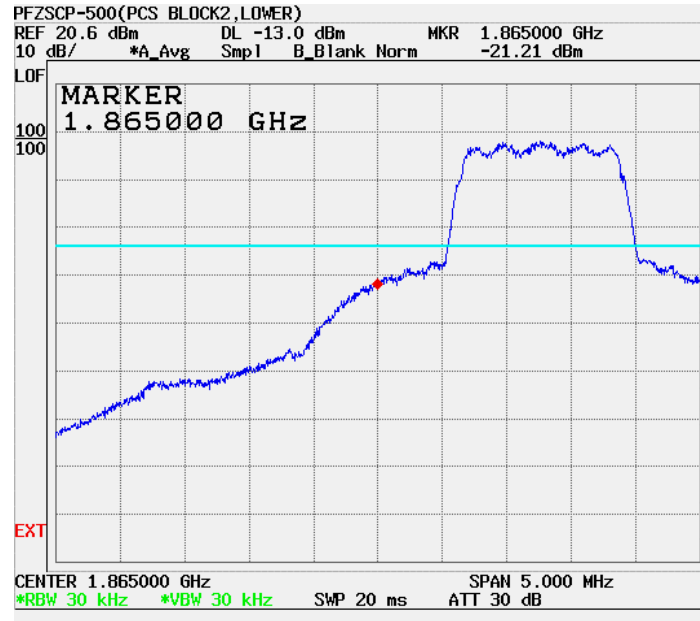


Upper

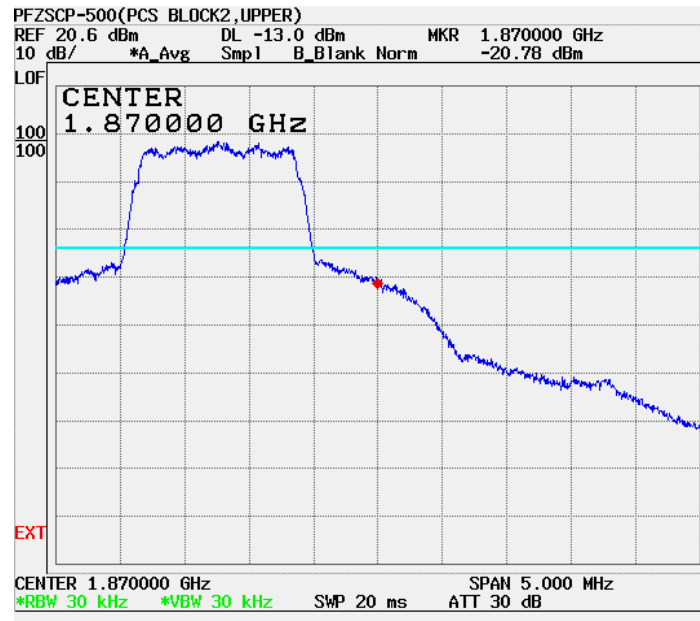


(2) BLOCK2

Lower

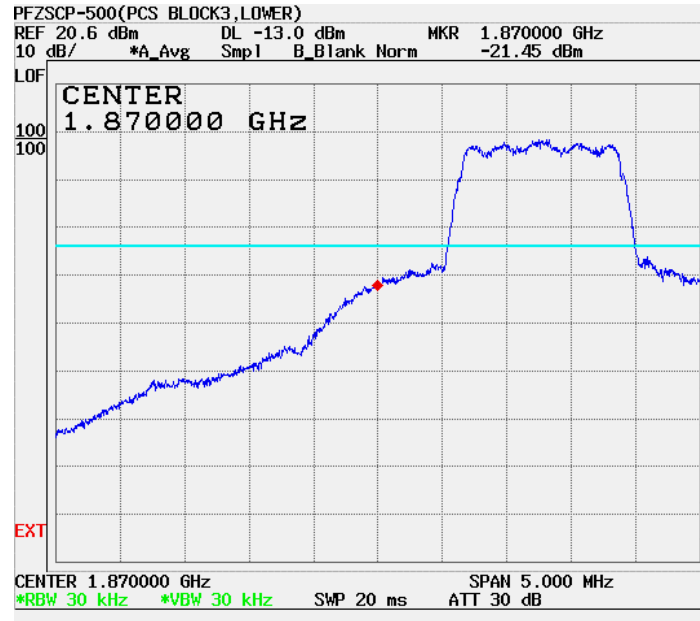


Upper

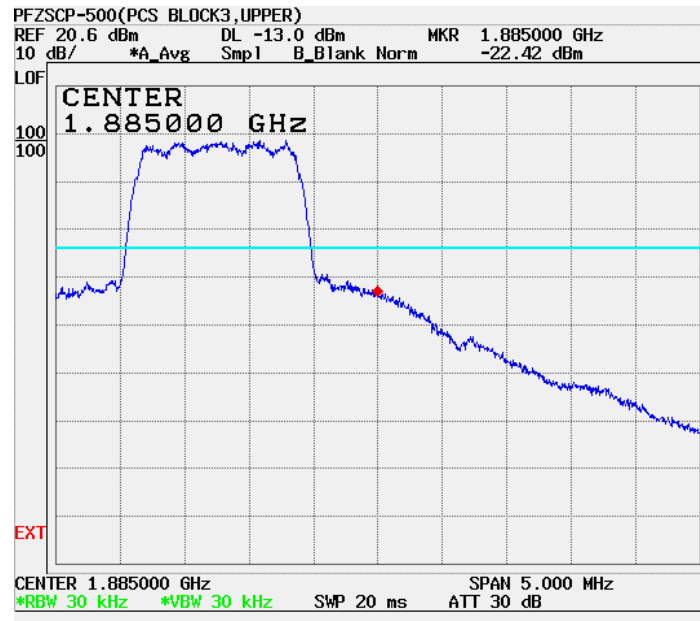


(3) BLOCK3

Lower

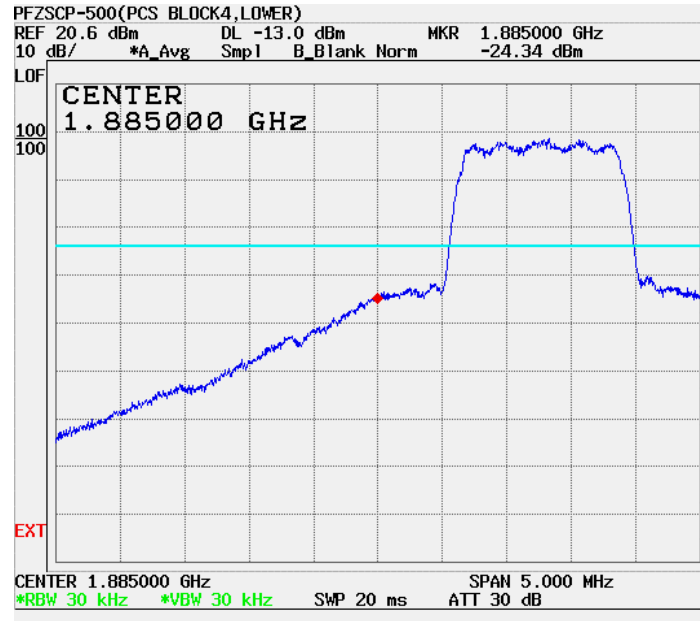


Upper

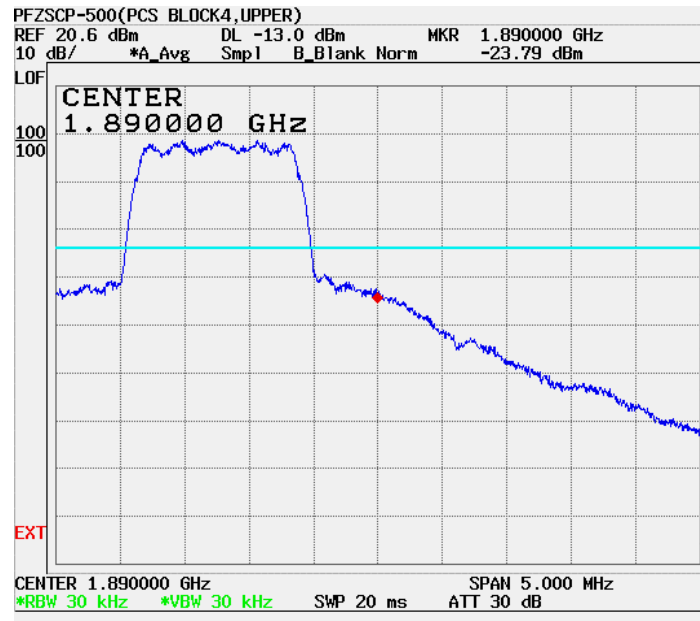


(4) BLOCK4

Lower

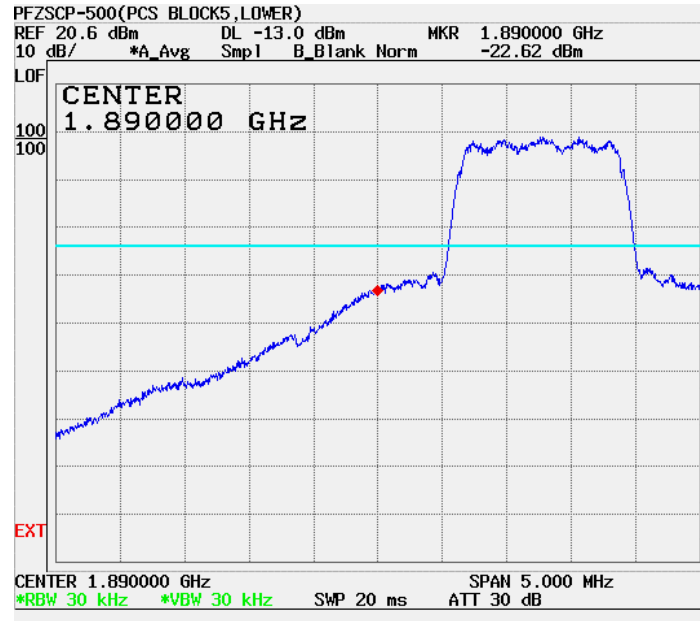


Upper

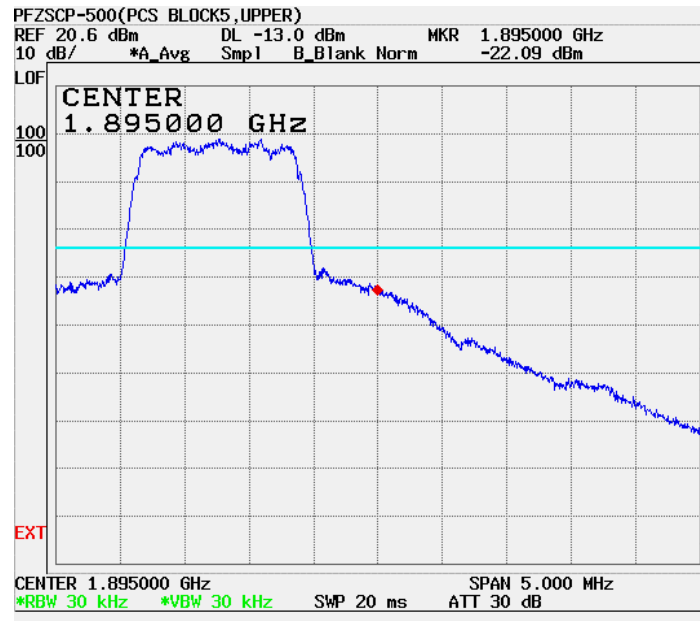


(5) BLOCK5

Lower

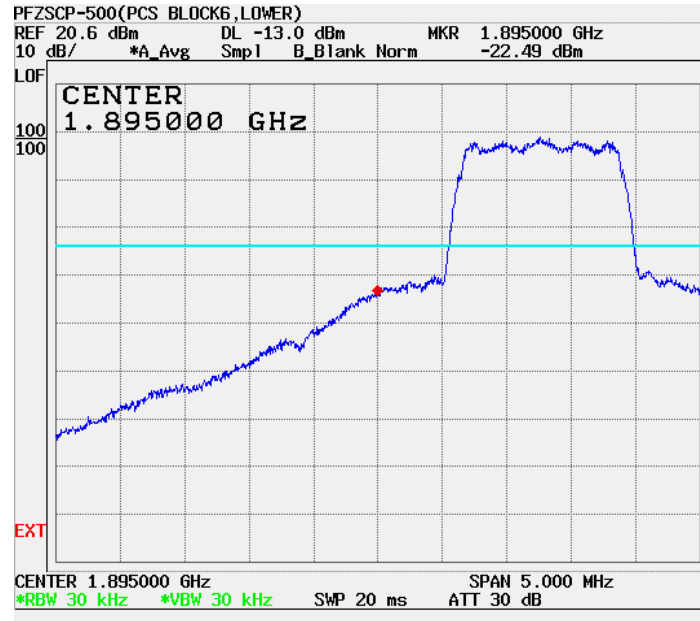


Upper

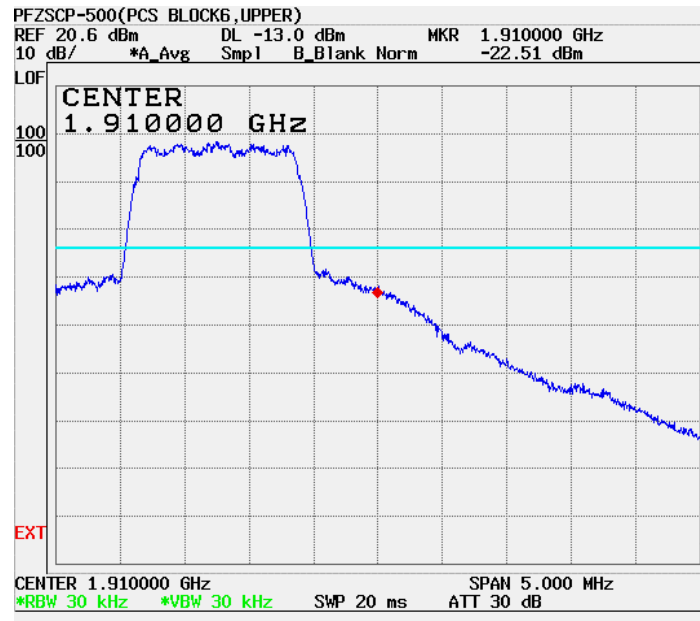


(6) BLOCK6

Lower

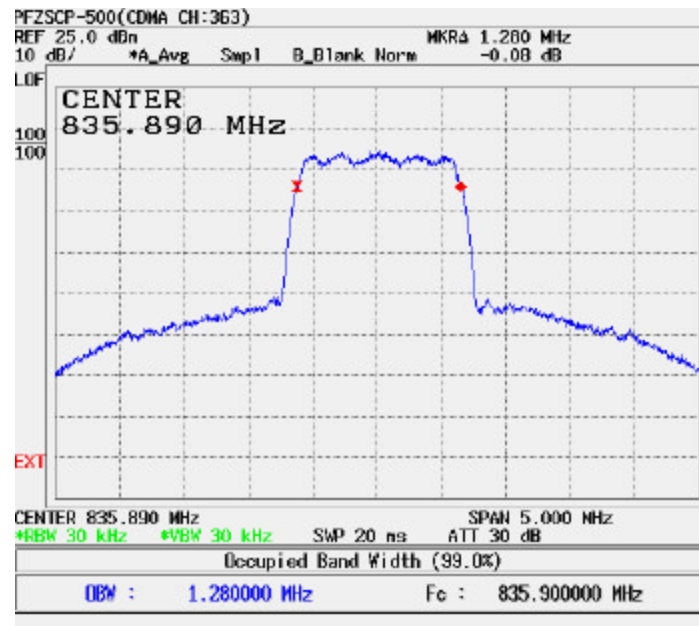


Upper

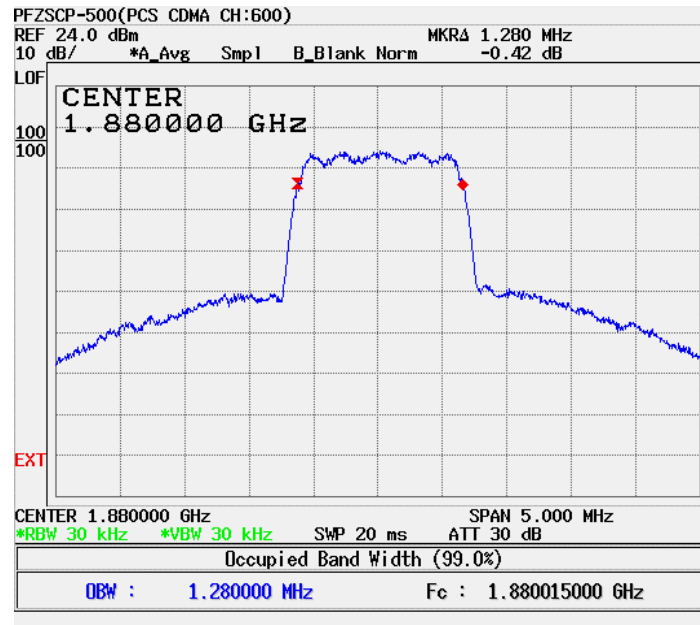


4.6.3. 99% bandwidth

(1) CDMA CH : 363



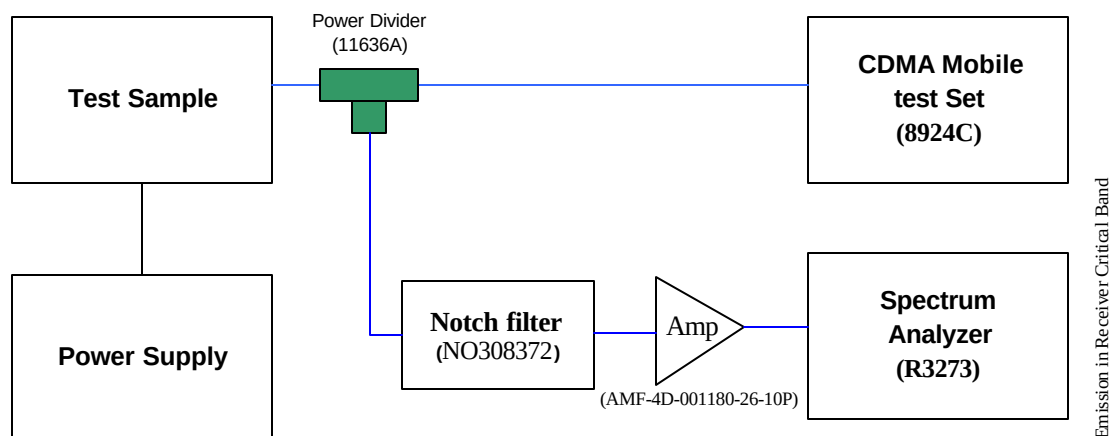
(2) PCS CDMA CH : 600



5. Emission in Receiver Critical Band

Specification : FCC part 22.917(f)

5.1. Setup



5.2. Method of Measurements

Testing was performed with the EUT connected to a 6dB splitter and connect cellular rejection filter(which avoid transmitter power damage to spectrum analyzer), 26dB amp(which use to analyzer noise level decrease) and then to the Spectrum analyzer. The base station simulator was connected to the other port of the splitter to establish a call. (Analyzer Setting RBW=VBW=30KHz , Detector= MAX HOLD)

5.3. Limits

Band	Frequency range	Limits
CDMA	869 ~ 894 MHz	-80 dBm

5.4. Test environment

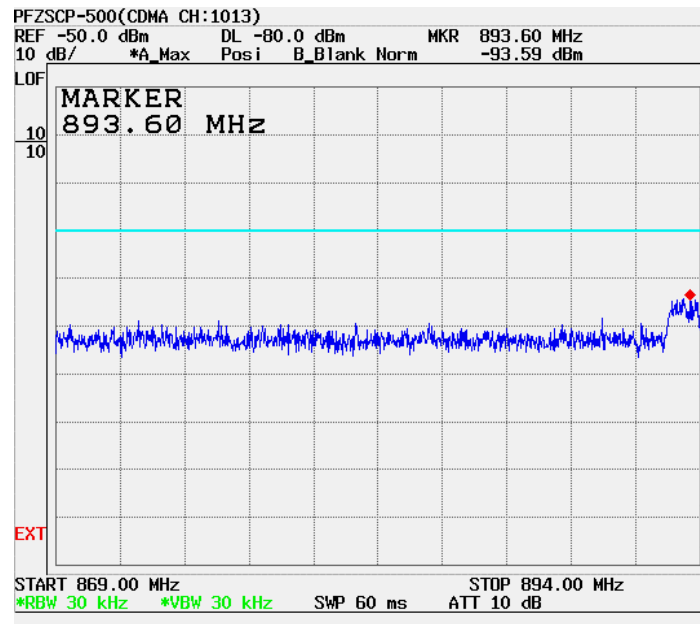
Temperature :	+25.1 ?
Relative humidity:	62 %
Air pressure	881 mbar

5.5. Test Results

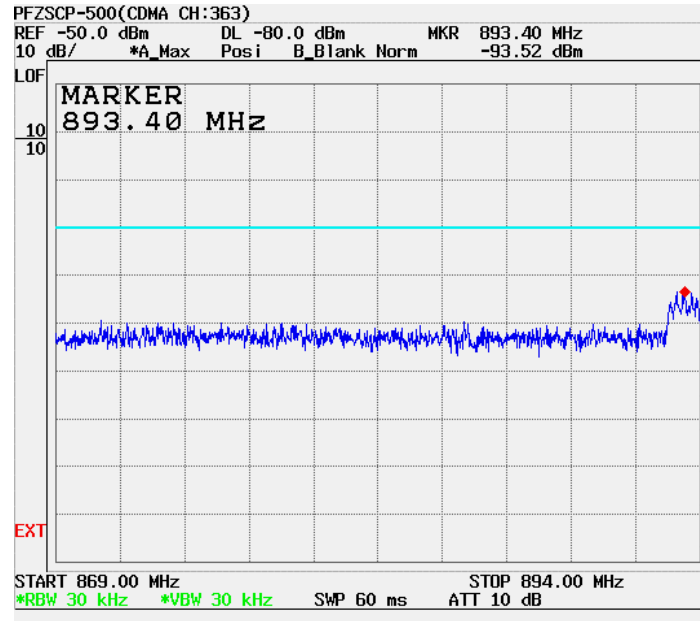
CHANNEL	CDMA (dBm)
1013	-93.59
363	-93.52
777	-93.71

5.6. Plots

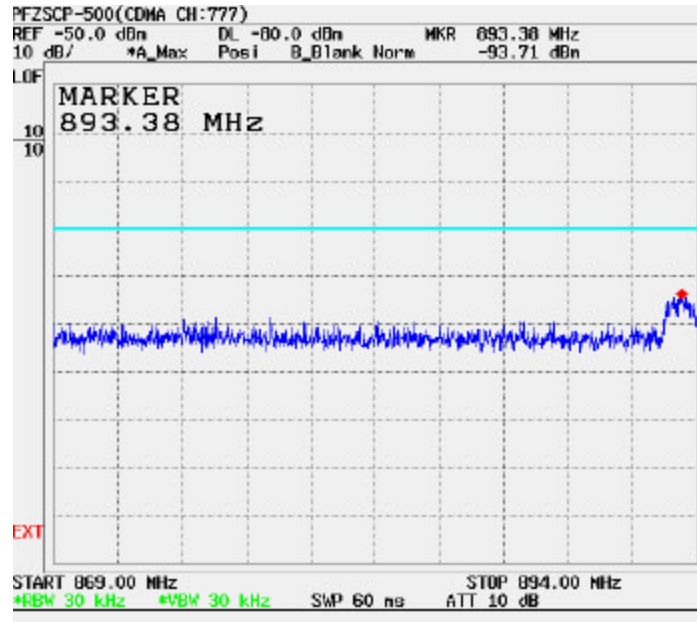
(1) CDMA CH : 1013



(2) CDMA CH : 363



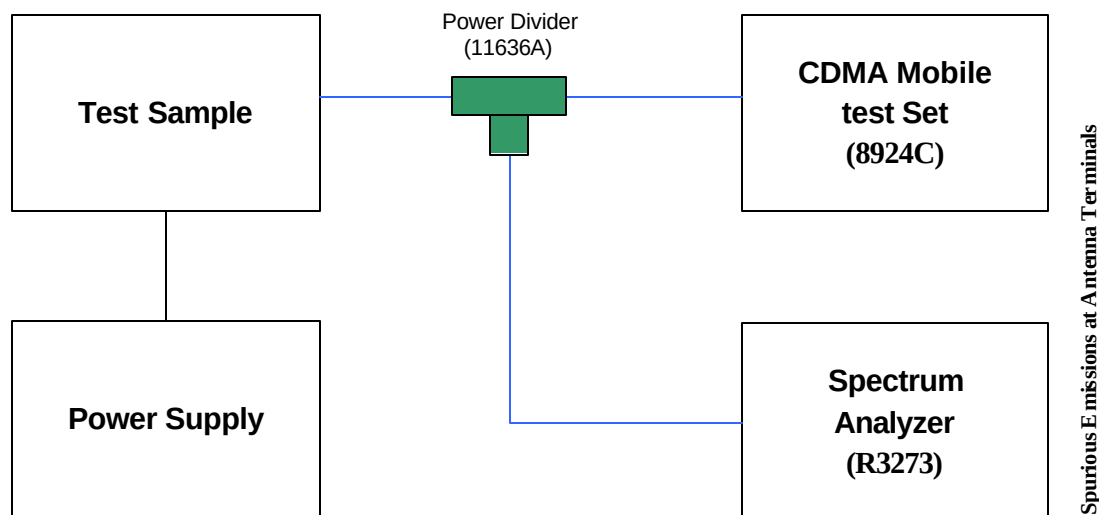
(3) CDMA CH : 777



6. Spurious Emissions at Antenna Terminals

Specification : FCC part 2.1051

6.1. Setup



6.2. Method of Measurements

Testing was performed with the EUT connected to a 6dB splitter and then to the Spectrum analyzer. The base station simulator was connected to the other port of the splitter to establish a call.

(For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic)

6.3. Limits

Band	Frequency range	Limits
CDMA/PCS CDMA	30MHz ~ 20 GHz	-13 dBm

6.4. Test environment

Temperature :	+25.3 ?
Relative humidity:	64 %
Air pressure	882 mbar

6.5. Test Result

6.5.1. CDMA

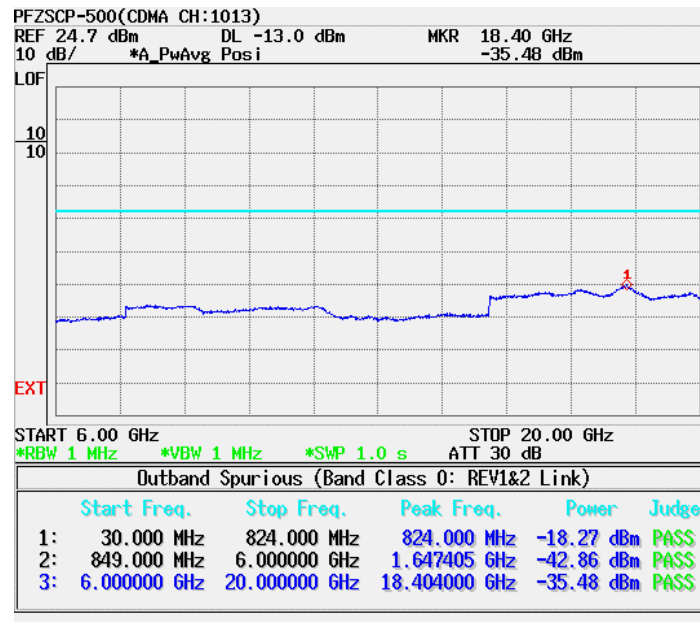
CHANNEL	Frequency Band (MHz)	Peak Frequency (MHz)	Peak Level (dBm)	Limits (dBm)
1013	30 ~ 824	824	-18.27	-13
	849 ~ 6000	1647	-42.86	-13
	6000 ~ 20000	18404	-35.48	-13
363	30 ~ 824	824	-41.49	-13
	849 ~ 6000	849	-42.63	-13
	6000 ~ 20000	18404	-35.67	-13
777	30 ~ 824	824	-44.32	-13
	849 ~ 6000	849	-26.17	-13
	6000 ~ 20000	18278	-35.77	-13

6.5.2. PCS CDMA

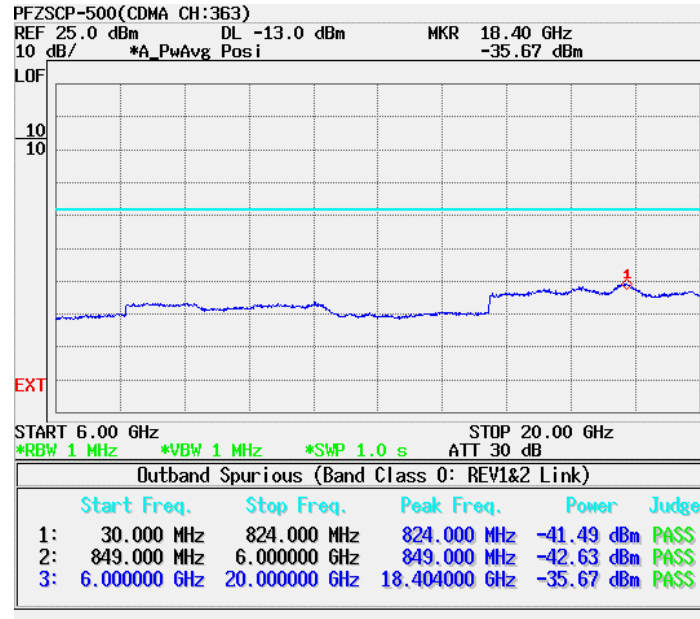
CHANNEL	Frequency Band (MHz)	Peak Frequency (MHz)	Peak Level (dBm)	Limits (dBm)
25	30 ~ 1850	1850	-16.55	-13
	1910 ~ 6000	4208	-43.77	-13
	6000 ~ 20000	18390	-35.55	-13
600	30 ~ 1850	1850	-46.84	-13
	1910 ~ 6000	4196	-43.51	-13
	6000 ~ 20000	18376	-36.02	-13
1175	30 ~ 1850	747	-45.69	-13
	1910 ~ 6000	3824	-37.94	-13
	6000 ~ 20000	18334	-35.85	-13

6.6. Plots

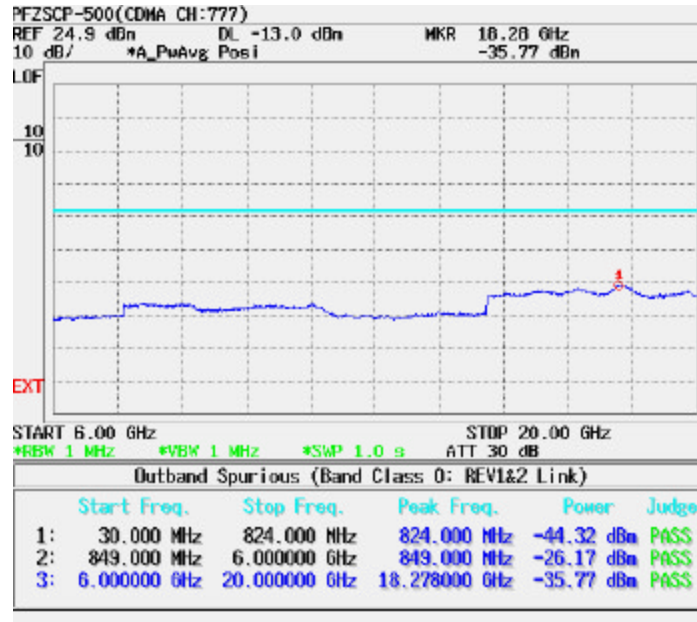
(1) CDMA CH : 1013



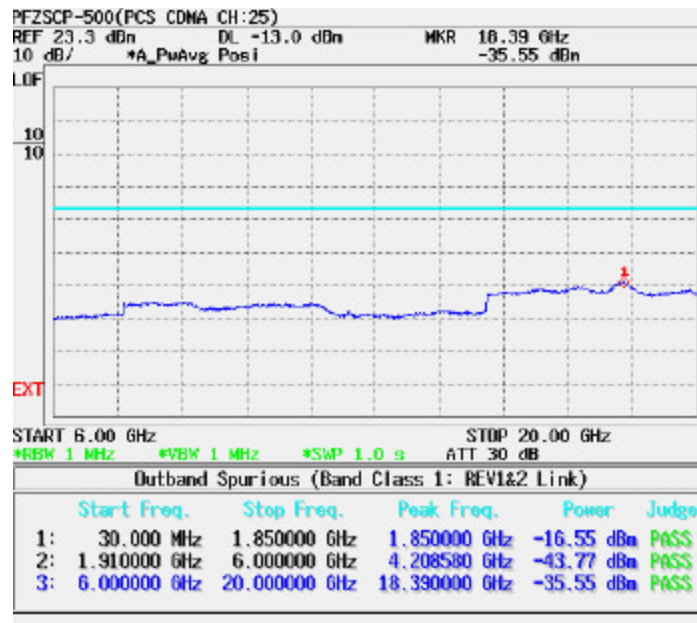
(2) CDMA CH : 363



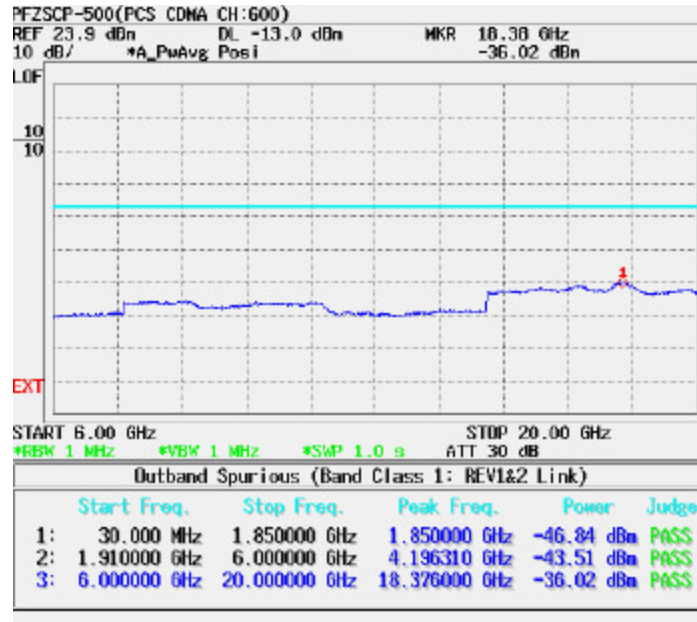
(3) CDMA CH : 777



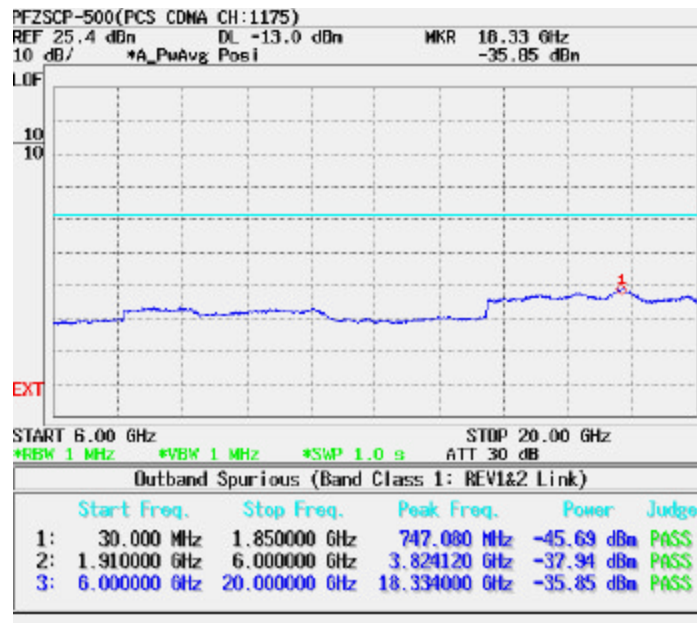
(4) PCS CDMA CH : 25



(5) PCS CDMA CH : 600



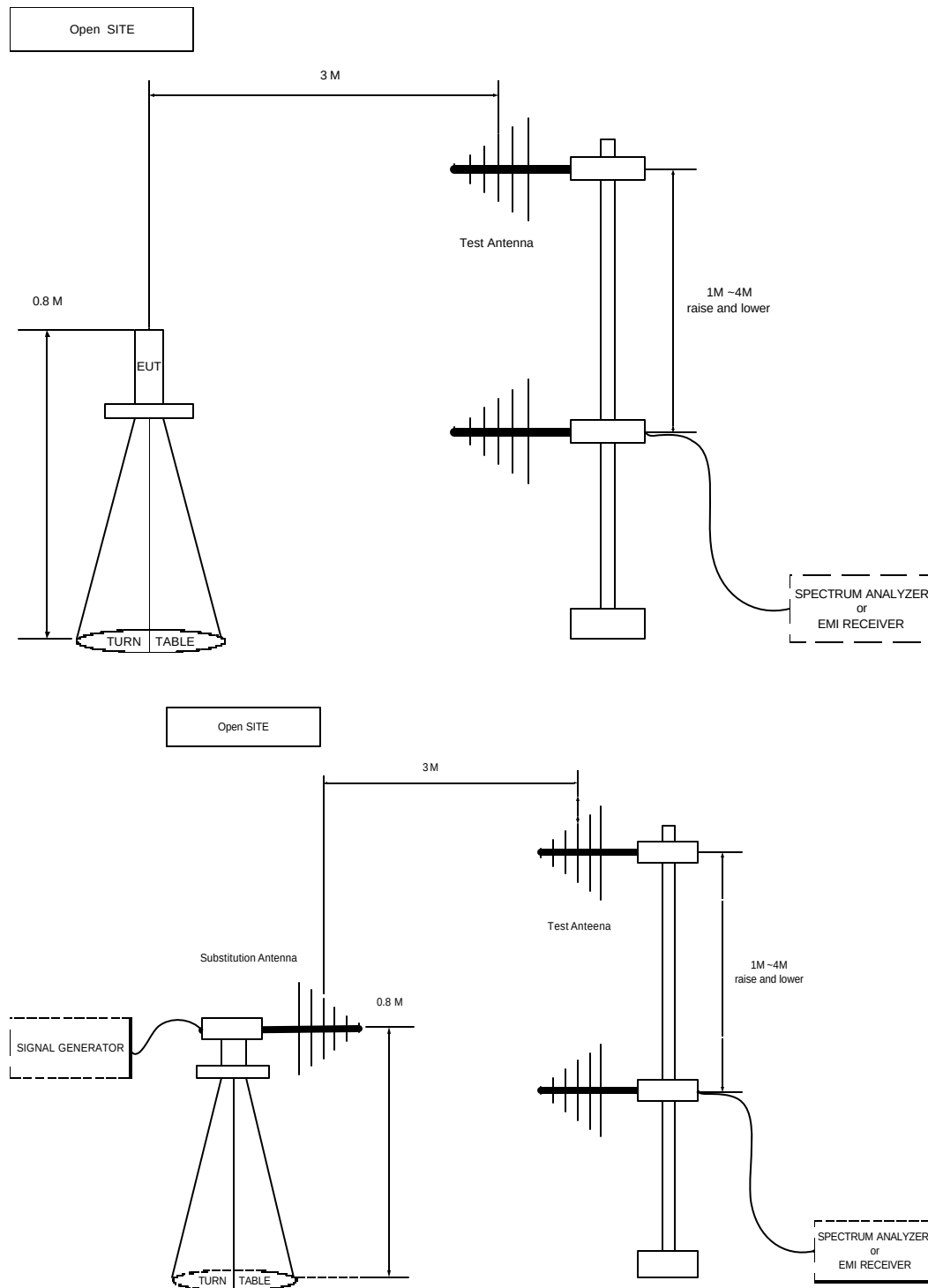
(6) PCS CDMA CH : 1175



7. Field Strength of Spurious Radiation

Specification : FCC part 2.1053

7.1. Setup



7.2. Method of Measurements

The measurement facilities used for this test have been documented in previous filings with the commission pursuant to section 2.948.

The open field test site is situated in open field with ground screen whose site attenuation characteristics meet ANSI C63.4 –1992. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotatable wooden platform mounted at three from the antenna mast.

- 1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.
- 2) During the test , the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with χ 2 dipole antenna(PCS band use Horn antenna) that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item(4).
- 6) The signal generator output level is the rating of effective radiated power(ERP).
- 7) The instrument settings used (RBW/ VBW) during ERP/ EIRP output power measurement are as RBW 3MHz, VBW 3MHz

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

7.3. Limits

Band	Frequency range	Limits
CDMA/PCS CDMA	30MHz ~20 GHz	-13 dBm

7.4. Test environment

Temperature :	+25.6 ?
Relative humidity:	65 %
Air pressure	880 mbar

7.5. Test Results

7.5.1. CDMA

Channel	Frequency Max (MHz)	SPA reading (dBm)	S/G (dBm)	Antenna (dBd)	POL (H/V)	Limits (dBm)	ERP (dBm)
1013	1649.5	-52.33	-31.73	7.15	V	-13	-24.58
1013	1649.3	-58.85	-37.73	7.15	H	-13	-30.58
363	1672.2	-47.95	-36.06	7.15	V	-13	-28.91
363	1671.9	-51.75	-30.78	7.15	H	-13	-23.63
777	1696.5	-46.34	-27.55	7.35	V	-13	-20.20
777	1696.5	-50.96	-31.15	7.35	H	-13	-23.80

ERP(dBm) = Signal generator(dBm)(including Cable loss) + Antenna Gain(dBd)

ANALYZER SETTING RBW=VBW= 3MHz

Maximum ERP Antenna Status = ☐ OUT ☐ IN, Position = ? X ☐ Y ☐ Z

7.5.2. PCS CDMA

Channel	Frequency Max (MHz)	SPA reading (dBm)	S/G (dBm)	Antenna (dBi)	POL (H/V)	Limits (dBm)	ERP (dBm)
25	3703.3	-77.35	-54.02	12.30	V	-13	-41.71
25	3702.9	-58.20	-33.99	12.30	H	-13	-21.68
600	3759.7	-80.93	-58.17	12.30	V	-13	-45.87
600	3760.5	-64.00	-40.62	12.30	H	-13	-28.32
1175	3817.6	-81.58	-59.12	12.30	V	-13	-46.82
1175	3817.7	-54.83	-30.75	12.30	H	-13	-18.45

EIRP(dBm) = Signal generator(dBm)(including Cable loss) + Antenna Gain(dBi)

ANALYZER SETTING RBW=VBW= 3MHz

Maximum ERP Antenna Status = ☐ OUT ☐ IN, Position = ? X ☐ Y ☐ Z

NOTES:

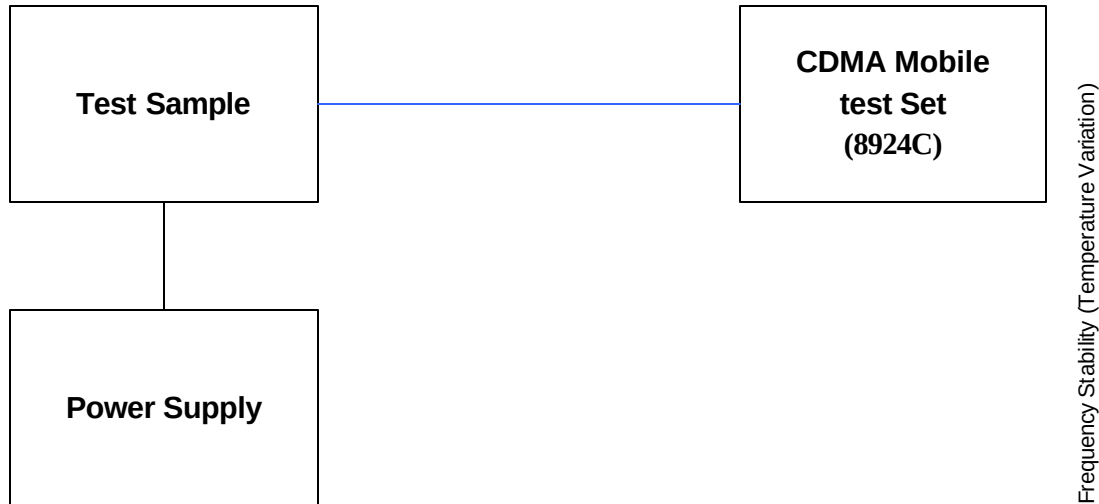
Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

8. Frequency Stability

Specification : FCC part 2.1055(a)(1)(b), part 24.235

8.1. Setup



8.2. Method of Measurement

- 1) Measure the carrier frequency at room temperature
- 2) Subject the EUT to overnight soak at -30? .
- 3) With the EUT, powered via nominal voltage, connected the CDMA Mobile test set(8924C) and in a simulated call on mid channel(363 for CDMA & 600 for PCS CDMA), measure the carrier frequency. These measurements should be made within 2 minutes of powering up the EUT, to prevent significant self-warming.
- 4) Repeat the above measurements at 10? increments from -30? to +50? . Allow at least 1 1/2 hours at each temperature, unpowered , before making measurements.
- 5) Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1 volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
- 6) Subject the EUT to overnight soak at +50? .
- 7) With the EUT, powered via nominal voltage, connected the CDMA Mobile test set(8924C) and in a simulated call on mid channel(363 for CDMA & 600 for PCS CDMA), measure the carrier frequency. These measurements should be made within 2 minutes of powering up the EUT, to prevent significant self-warming.
- 8) Repeat the above measurements at 10? increments from +50? to -30? . Allow at least 1 1/2 hours at each temperature, unpowered , before making measurements
- 9) At all temperature levels hold the temperature to +/-0.5? during the measurement procedure.

8.3. Limits

The frequency stability of carrier shall be accurate to within 2.5ppm (for Hand carried battery powered equipments and for equipment powered by primary supply voltage, which vary 85% to 115% of normal voltage)

8.4. Test environment

Temperature :	-30? to +50? (10? increase)	25?
Power voltage:	normal	85% to 115% of normal

8.5. Test Results

8.5.1. CDMA(CH:363)

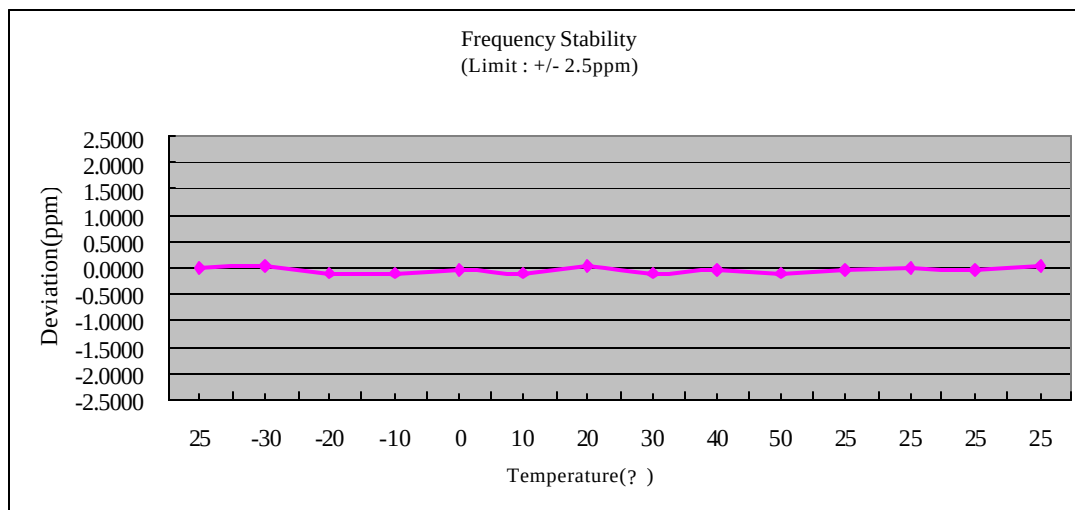
Frequency = 835.89MHz

FRRQ ERROR vs. VOLTAGE

Voltage (VDC)	Temperature (?)	Frequency (Hz)	Delta (Hz)	Frequency Error (ppm)	Limits (ppm)
5.75	25	835,890,022	-32	-0.0383	± 2.5
5.00	25	835,890,054	0	0.0000	± 2.5
4.25	25	835,890,011	-43	-0.0514	± 2.5
3.30(end point)	25	835,890,078	24	0.0287	± 2.5

FRRQ ERROR vs. TEMPERATURE

Voltage (VDC)	Temperature (?)	Frequency (Hz)	Delta (Hz)	Frequency Error (ppm)	Limits (ppm)
5.0	+25	835,890,054	0	0.0000	± 2.5
5.0	-30	835,890,074	20	0.0239	± 2.5
5.0	-20	835,889,964	-90	-0.1077	± 2.5
5.0	-10	835,889,980	-74	-0.0885	± 2.5
5.0	0	835,890,026	-28	-0.0335	± 2.5
5.0	+10	835,889,977	-77	-0.0921	± 2.5
5.0	+20	835,890,083	29	0.0347	± 2.5
5.0	+30	835,889,955	-99	-0.1184	± 2.5
5.0	+40	835,890,031	-23	-0.0275	± 2.5
5.0	+50	835,889,961	-93	-0.1113	± 2.5



8.5.2. PCS CDMA(CH:600)

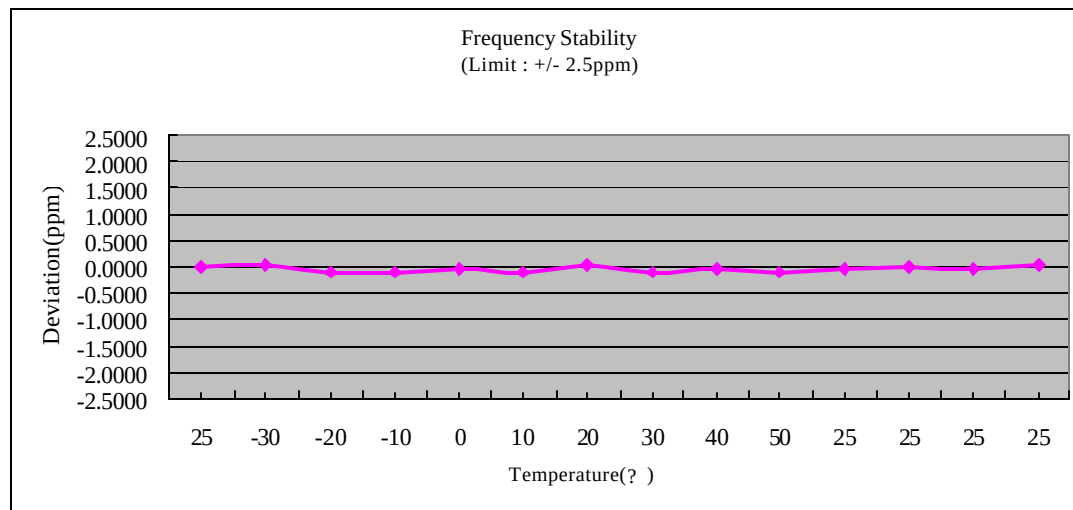
Frequency = 1880MHz

FRRQ ERROR vs. VOLTAGE

Voltage (VDC)	Temperature (°C)	Frequency (Hz)	Delta (Hz)	Frequency Error (ppm)	Limits (ppm)
5.75	25	18,800,000,019	-24	-0.0013	± 2.5
5.00	25	18,800,000,043	0	0.0000	± 2.5
4.25	25	18,800,000,018	-25	-0.0013	± 2.5
3.30(end point)	25	18,800,000,107	64	0.0034	± 2.5

FRRQ ERROR vs. TEMPERATURE

Voltage (VDC)	Temperature (°C)	Frequency (Hz)	Delta (Hz)	Frequency Error (ppm)	Limits (ppm)
5.0	+25	18,800,000,043	0	0.0000	± 2.5
5.0	-30	18,800,000,034	-9	-0.0005	± 2.5
5.0	-20	18,800,000,054	11	0.0006	± 2.5
5.0	-10	18,800,000,065	22	0.0012	± 2.5
5.0	0	18,800,000,085	42	0.0022	± 2.5
5.0	+10	18,799,999,966	-77	-0.0041	± 2.5
5.0	+20	18,799,999,974	-69	-0.0037	± 2.5
5.0	+30	18,799,999,957	-86	-0.0046	± 2.5
5.0	+40	18,800,000,031	-12	-0.0006	± 2.5
5.0	+50	18,799,999,943	-100	-0.0053	± 2.5



9. Conclusion

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The data collected shows that the Wireless PC Card for Dual Band(CDMA/ PCS CDMA)
FCC ID: PFZSCP-500 complies with all the requirements of Parts 2 and 22, 24 of the FCC rules.