FCC TEST REPORT

Product Name	Portable Data Collection Terminal				
Model Name	MC-7500S				
Applicant	Mobile Compia Co., Ltd.				
FCC ID	U7XMC-7500S				

ESTECH CO., LTD

Rm. 1015 World Venture Center, 426-5 Gasan-dong, Geumcheon-gu, Seoul, 153-803, Korea. Tel:82-2-867-3201, Fax:82-2-867-3204

Report Number: ESTR0805-020.xls 1 of 39



FCC Test Report

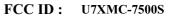
Report Number	ESTR0805-020					
A 11	Company Name	me Mobile Compia Co., Ltd.				
Applicant	Address	DongWon B/D, 72 080, Korea	25-30, Yeoksam-dong,	Gangnam-gu, Seoul, 135-		
	Product Name	Portable Data Co	llection Terminal			
Product	Model No.	MC-7500S	Manufacturer	Mobile Compia Co., Ltd.		
	Serial No.	NONE Country of origin KOREA				
Other	Issued Date	2008-05-26 Tested Date 2008-02-29 ~ 2008-05-23				
Test Result	Pass					
Standard	FCC PART 24 Subpart E & PART 22 Subpart H					
Tested by	I.K.Hong/ Engineer (Signature)					
Approved by	Eun-young Son/Manager (Signature)					

ESTECH CO., LTD

Rm. 1015 World Venture Center, 426-5 Gasan-dong, Geumcheon-gu, Seoul, 153-803, Korea. Tel:82-2-867-3201, Fax:82-2-867-3204

- o This is certified that the above mentioned products have been tested for the sample provided by client.
- o No part of this document may not be duplicated or reproduced by any means without the express written permission of Estech Co., Ltd.

Report Number: ESTR0805-020.xls 2 of 39





Contents

1. General Information	Page 4
2. Laboratory Information	Page 5
3. Summary of Test Results	Page 5
4. RF Output Power	Page 6
5. Occupied Bandwidth	Page 10
6. Spurious and Harmonic Emission at Antenna Terminal	Page 16
7. Field Strength of Spurious Radiation	Page 32
8. Frequency stability	Page 37



1. General Information

1.1 EUT Description

FCC ID	U7XMC-7500S
Product Name	Portable Data Collection Terminal
Model Name	MC-7500S
Frequency	Tx :1850.20 ~ 1909.80MHz(PCS1900), 824.2 ~ 848.8MHz(GSM850)
	Rx :1930.20 ~ 1989.80MHz(PCS1900), 869.2 ~ 893.8MHz(GSM850)
Channel	PCS1900(512/661/810), GSM850 (128/190/251)
Modulation Type	GMSK, 8PSK
Power Rating	3.7VDC(3.2 ~ 4.3VDC)

Report Number: ESTR0805-020.xls 4 of 39



2. Laboratory Information

2.1 Laboratory Name Estech Co., Ltd.

2.2 Location

Head Office Rm. 1015, World Venture Center II, 426-5 Gasan-dong

Geumcheon-gu, Seoul, 153-803. Korea.

EMC Lab(Ichon) 58-1, Osan-Ri, GaNam-Myon, YeoJoo-Gun, KyungKi-Do, Korea EMC Lab(Yanggi) 97-1, Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea

2.3 Quality System Accredited by KOLAS(ISO/IEC 17025)

2.4 Major Accredited Mark

















3. Summary of Test Results

Test Item	Standard	Result
RF Output Power		PASS
Occupied Bandwidth		PASS
Spurious and Harmonic Emission at Antenna Terminal	Part 22 & 24	PASS
Field Strength of Spurious Radiation		PASS
Frequency stability		PASS

Report Number: ESTR0805-020.xls



4. RF Output Power

4.1 Test Procedure

The EUT was placed on a wooden turn table 3 meters from the receive antenna. The receive antenna height and turn table rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1MHz, A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For reading 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

4.2 Test Equipments

The following test equipments are used during tests

Equipment	Manufacturer	Model	Cal. Due Date
Receiver	Rohde & Schwarz	ESPI7	2008-08-27
Signal Generator	HP	83620B	2008-09-11
Power Meter	Power Meter HP EPM-442A		2009-02-28
Wireless Communications Test Set	Agilent	E5515C	2009-02-12
Pre Amplifier	HP	8449B	2009-03-06
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2008-07-24
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2009-06-05

4.3. Test Results

4.3.1 PCS1900

(GSM)

Ch No.	Freq (MHz)	Peak Power Meter(dBm)	Peak Power EIRP(dBm)
512	1850.20	29.83	26.60
661	1880.00	29.96	26.43
810	1909.80	29.92	27.24

Report Number: ESTR0805-020.xls 6 of 39



EST

1909.80

Correction Factor Receiver (dB) **FREQ** SG Reading **EIRP** Limit **POL** Reading (MHz) (dBm) (dBm) (H/V) (dBm) **Cable Loss** Antenna (dBuV) gain(dBi) (dB) 1850.20 87.14 10.40 12.50 28.70 26.60 33 Η 1880.00 87.29 10.43 12.60 28.60 33 26.43 Η

29.50

27.24

12.70

FCC ID:

33

U7XMC-7500S

Η

7 of 39

(EDGE)

87.97

10.44

Ch No.	Freq (MHz)	Peak Power Meter(dBm)	Peak Power EIRP(dBm)
128	1850.20	26.52	22.90
190	1880.00	26.77	23.23
251	1909.80	26.79	23.74

FREQ Receiver		Correction Factor (dB)		SG Reading EIRP	Limit	POL	
(MHz)	Reading (dBuV)	Antenna gain(dBi)	Cable Loss (dB)	(dBm)	(dBm)	(dBm)	(H/V)
1850.20	83.47	10.40	12.50	25.00	22.90	33	Н
1880.00	84.10	10.43	12.60	25.40	23.23	33	Н
1909.80	84.40	10.44	12.70	26.00	23.74	33	Н



EST

FCC ID: U7XMC-7500S

4.3.2 GSM850

(GSM)

Ch No.	Freq (MHz)	Peak Power Meter(dBm)	Peak Power ERP(dBm)
128	824.20	33.12	25.09
190	836.60	33.05	27.11
251	848.80	33.18	27.42

FREQ Receiver		(UD)		SG Reading ERP	Limit	POL	
(MHz)	Reading (dBuV)	Antenna gain(dBi)	Cable Loss (dB)	(dBm)	(dBm)	(dBm)	(H/V)
824.20	94.08	0.99	8.90	33.00	25.09	38.5	Н
836.60	95.80	1.31	9.10	34.90	27.11	38.5	Н
848.80	96.50	1.62	9.20	35.00	27.42	38.5	Н

(EDGE)

Ch No.	Freq (MHz)	Peak Power Meter(dBm)	Peak Power ERP(dBm)
128	824.20	30.11	23.19
190	836.60	30.15	24.61
251	848.80	30.44	24.72

Report Number: ESTR0805-020.xls 8 of 39



Correction Factor Receiver (dB) **FREQ** SG Reading **ERP** Limit **POL** Reading (MHz) (dBm) (dBm) (H/V) (dBm) **Cable Loss** Antenna (dBuV) gain(dBi) (dB) 824.20 92.27 0.99 8.90 31.10 23.19 38.5 Η 836.60 93.30 9.10 32.40 38.5 1.31 24.61 Η 848.8093.80 1.62 9.20 32.30 24.72 38.5 Η

FCC ID:

U7XMC-7500S

Report Number: ESTR0805-020.xls 9 of 39

5. Occupied Bandwidth

5.1 Test Procedure

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% of the Emission bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled.

5.2 Test Equipments

The following test equipments are used during tests

Equipment	Manufacturer	Model	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	2008-09-10
Dual Directional Coupler	HP	778D	2009-02-28
Wireless Communications Test Set	Agilent	E5515C	2009-02-28

5.3 Test Results

5.3.1 PCS1900

(GSM)

Channel	Frequency(MHz)	26dB Bandwidth(kHz)
512	1850.20	300.12
661	1880.00	300.39
810	1909.80	300.05

(EDGE)

Channel	Frequency(MHz)	26dB Bandwidth(kHz)
512	1850.20	288.07
661	1880.00	299.42
810	1909.80	293.76

Report Number: ESTR0805-020.xls 10 of 39

5.3.2 GSM850

(GSM)

Channel	Frequency(MHz)	26dB Bandwidth(kHz)
128	824.20	288.62
190	836.60	300.37
251	848.80	288.78

(EDGE)

Channel	Frequency(MHz)	26dB Bandwidth(kHz)
128	824.20	292.71
190	836.60	300.47
251	848.80	300.32

Report Number: ESTR0805-020.xls 11 of 39



5.4 Test Plot

PCS1900 GSM

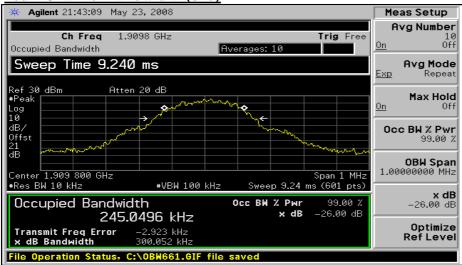
26dB Channel Bandwidith(512)



26dB Channel Bandwidith(661)



26dB Channel Bandwidith(810)





PCS1900 EDGE

26dB Channel Bandwidith(512)



26dB Channel Bandwidith(661)



26dB Channel Bandwidith(810)



GSM850

26dB Channel Bandwidith(128)



26dB Channel Bandwidith(190)



26dB Channel Bandwidith(251)

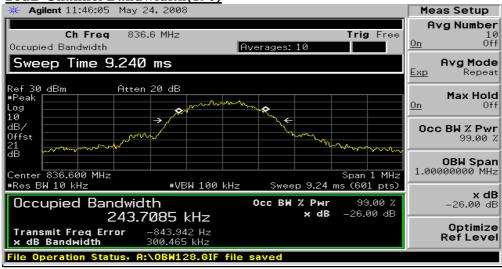


GSM850 EDGE

26dB Channel Bandwidith(128)



26dB Channel Bandwidith(190)



26dB Channel Bandwidith(251)



6. Spurious and Harmonic Emission at Antenna Terminal

6.1 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to 10GHz. Set the RES BW to 1% of the emission bandwidth to show compliance with the -13dBm, limit, in the 1MHz bands immediately outside and adjacent to the top and bottom edges of the frequency block.

FCC ID:

U7XMC-7500S

For the Out-of-Band measurements a 1MHz RBW was used to scan from 10MHz to 10xfo of the fundamental carrier for all frequency block. A display line was placed at -13dBm to show compliance for spurious, and harmonics.

22.917(f): Mobile emission in base frequency range. The mean power of any emissions appearing in the base station frequency range from cellular mobile transmitter operated must be attenuated to a level not to exceed - 80dBm at the transmit antenna connector.

6.2 Test Equipments

The following test equipments are used during tests

Equipment	Manufacturer	Model	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	2008-09-10
Dual Directional Coupler	HP	778D	2009-02-28
Wireless Communications Test Set	Agilent	E5515C	2009-02-28

6.3 Test Results

6.3.1 PCS1900

GSM(Spurious Emission: Band Edge)

Channel	Frequency	Result	Limit	Margin
512	1850.20	-19.33	-13.00	6.33
810	1909.80	-19.02	-13.00	6.02

GSM (Spurious Emission: Out of Band)

Channel	Frequency	Result	Limit	Margin
512	1850.20	-35.98	-13.00	22.98
661	1880.00	-35.94	-13.00	22.94
810	1909.80	-36.10	-13.00	23.10

Report Number: ESTR0805-020.xls 16 of 39



(EDGE)

EDGE(Spurious Emission: Band Edge)

Channel	Frequency	Result	Limit	Margin
512	1850.20	-27.54	-13.00	14.54
661	1880.00	-27.87	-13.00	14.87

EDGE (Spurious Emission: Out of Band)

Channel	Frequency	Result	Limit	Margin
512	1850.20	-36.43	-13.00	23.43
661	1880.00	-36.10	-13.00	23.10
810	1909.80	-35.72	-13.00	22.72

6.3.2 GSM850

GSM(Spurious Emission: Band Edge)

Channel	Frequency	Result	Limit	Margin
128	824.20	-15.08	-13.00	2.08
190	836.60	-14.37	-13.00	1.37

GSM (Spurious Emission: Out of Band)

Channel	Frequency	Result	Limit	Margin
128	824.20	-35.07	-13.00	22.07
190	836.60	-35.18	-13.00	22.18
251	848.80	-35.02	-13.00	22.02

Report Number: ESTR0805-020.xls 17 of 39



(EDGE)

EDGE(Spurious Emission: Band Edge)

Channel	Frequency	Result	Limit	Margin
128	824.20	-23.43	-13.00	10.43
190	836.60	-25.25	-13.00	12.25

EDGE (Spurious Emission: Out of Band)

Channel	Frequency	Result	Limit	Margin
128	824.20	-38.01	-13.00	25.01
190	836.60	-37.62	-13.00	24.62
251	848.80	-37.94	-13.00	24.94

Report Number: ESTR0805-020.xls 18 of 39

6.5 Test Plot

PCS1900

PLOTS OF EMISSION (GSM): BAND EDGE(Ch512)



PLOTS OF EMISSION (GSM): BAND EDGE(Ch810)

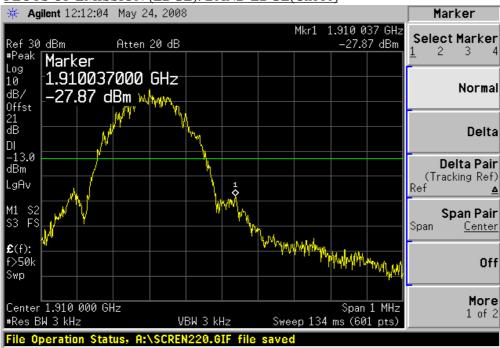


PCS1900 EDGE





PLOTS OF EMISSION (EDGE): BAND EDGE(Ch810)



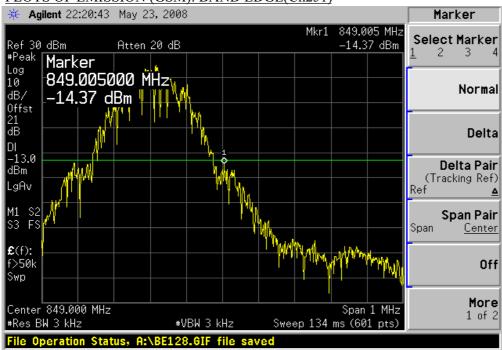


GSM850





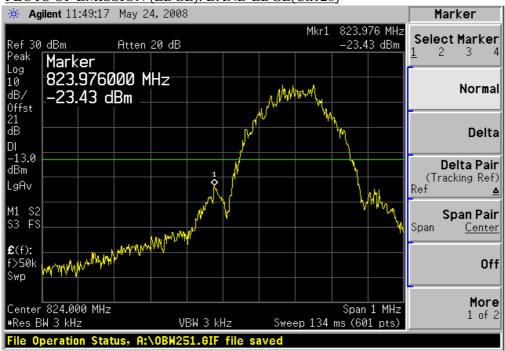
PLOTS OF EMISSION (GSM): BAND EDGE(Ch251)





GSM850 EDGE



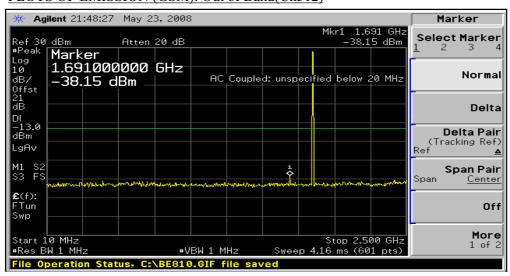


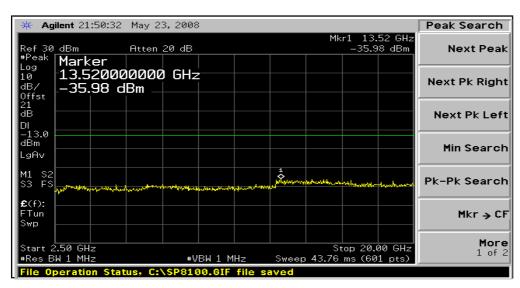
PLOTS OF EMISSION (EDGE): BAND EDGE(Ch251)



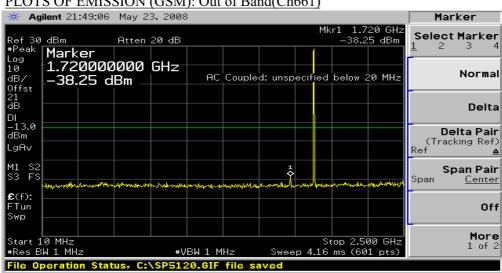
PCS1900

PLOTS OF EMISSION (GSM): Out of Band(Ch512)

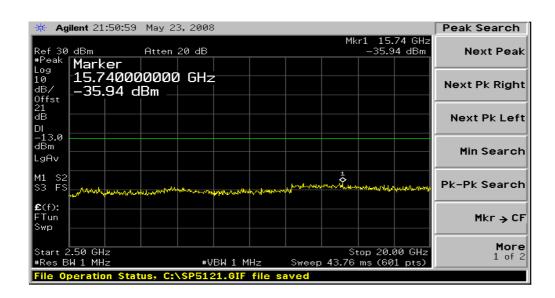




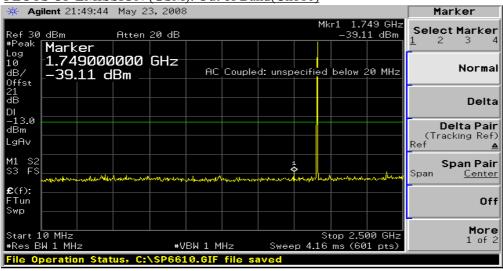
PLOTS OF EMISSION (GSM): Out of Band(Ch661)

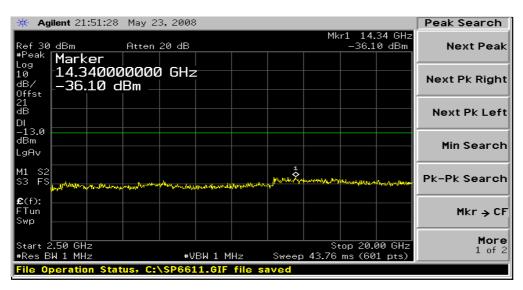






PLOTS OF EMISSION (GSM): Out of Band(Ch810)

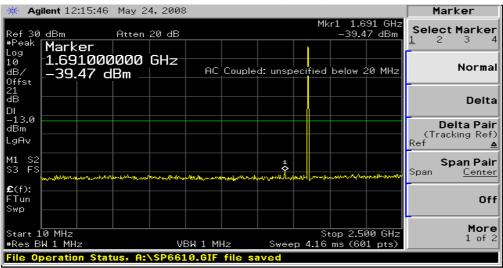


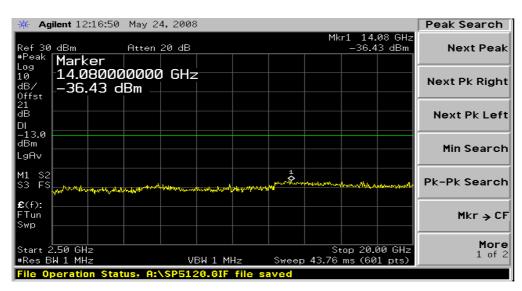




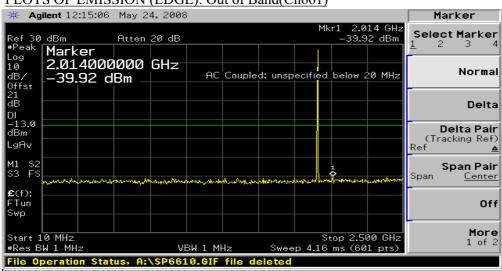
PCS1900 EDGE

PLOTS OF EMISSION (EDGE): Out of Band(Ch512)

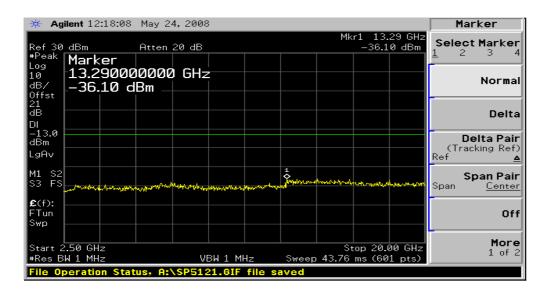




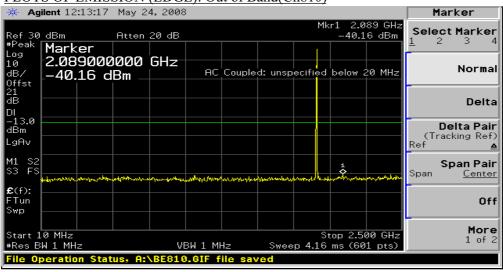
PLOTS OF EMISSION (EDGE): Out of Band(Ch661)

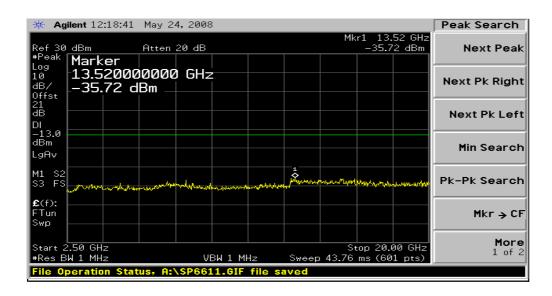






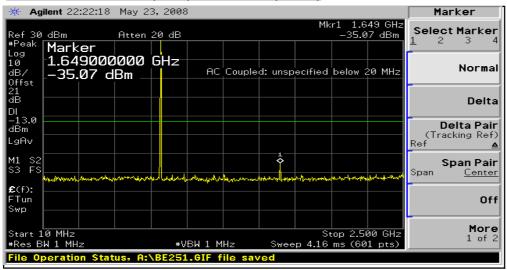
PLOTS OF EMISSION (EDGE): Out of Band(Ch810)

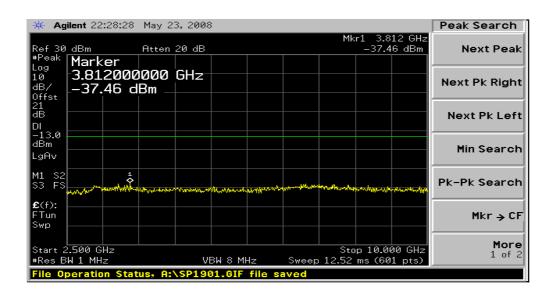




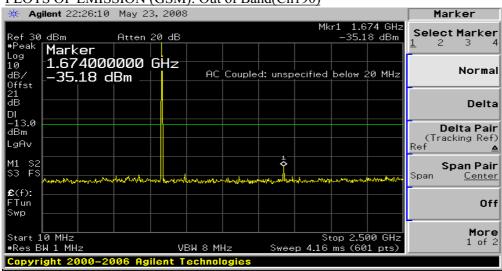
GSM850

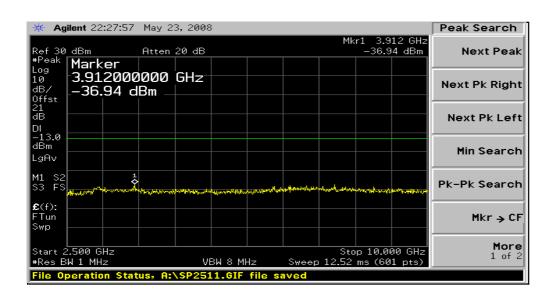
PLOTS OF EMISSION (GSM): Out of Band(Ch128)



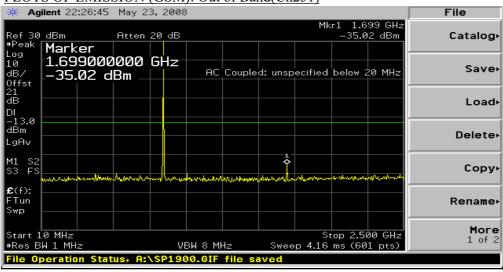


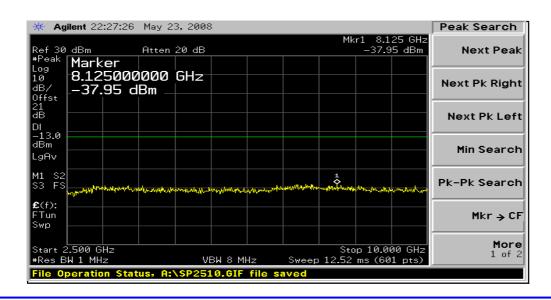
PLOTS OF EMISSION (GSM): Out of Band(Ch190)



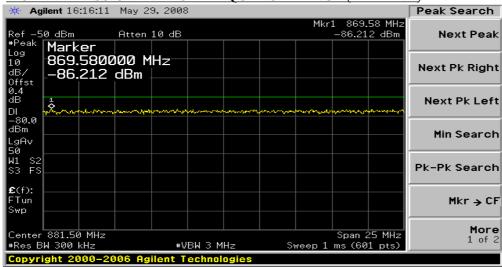


PLOTS OF EMISSION (GSM): Out of Band(Ch251)





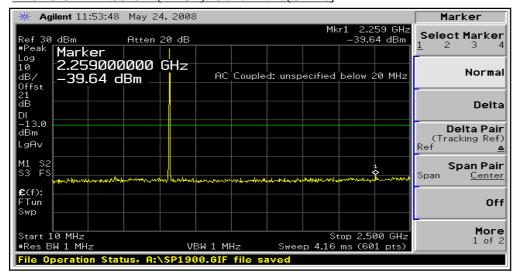
MOBILE EMISSION IN BASE FREQUENCY RANGE (RX BAND)

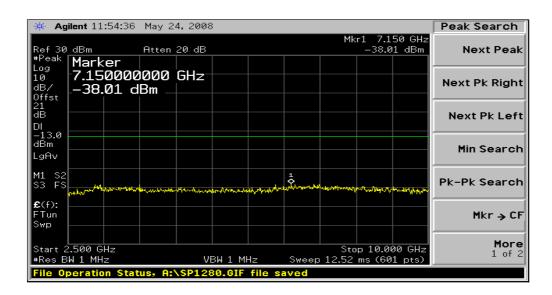




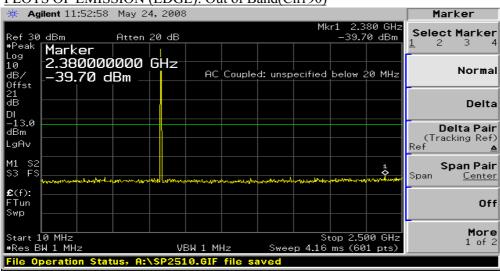
GSM850(EDGE)

PLOTS OF EMISSION (EDGE): Out of Band(Ch128)

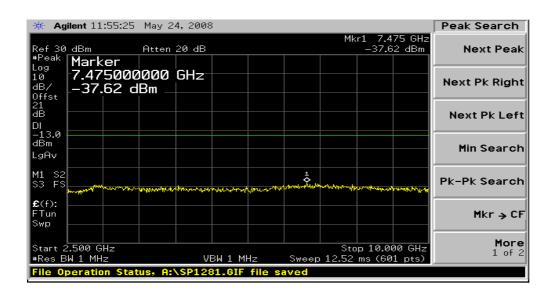




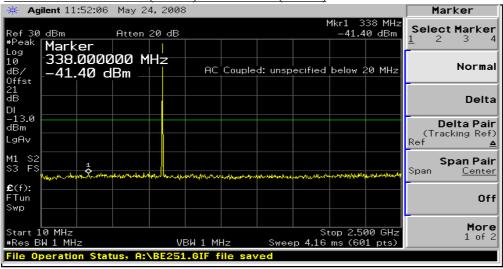
PLOTS OF EMISSION (EDGE): Out of Band(Ch190)

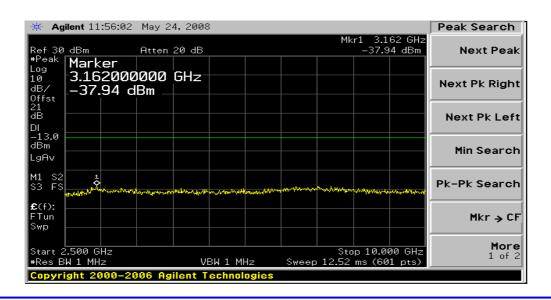






PLOTS OF EMISSION (EDGE): Out of Band(Ch251)





7. Field Strength of Spurious Radiation

7.1 Test Procedure

Radiation and harmonic emission are measured outdoors at our 3 meters test range. The equipment under test is placed on a wooden turntable 3 meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer (or receiver). A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

7.2 Test Equipments

The following test equipments are used during tests

	8		
Equipment	Manufacturer	Model	Cal. Due Date
Receiver	Rohde & Schwarz	ESPI7	2008-08-27
Signal Generator	HP	83620B	2008-09-11
Wireless Communications Test Set	Agilent	E5515C	2009-02-12
Pre Amplifier	HP	847F	2009-03-06
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2008-07-24
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2009-06-05

^{*} The TX signal isn't detected from 3rd harmonics.

Report Number: ESTR0805-020.xls 32 of 39



7.3 Test Results

PCS1900

GSM(Ch 512)

Mesured output power: 29.83dBm = 0.962W, Limit: $43+10\log_{10}(W)=42.83dBc$

	<u> </u>		,		810 ()		
Frequency	Receiver	Correction	Factor(dB)	EIRP((dBm)	dBc	Dolority
(MHz)	Reading(dBuV	AG(dBi)	CL(dB)	SG Reading	Result	ubc	Polarity
3700.40	50.14	12.69	19.10	-27.60	-34.01	60.61	V
5550.60	46.12	13.15	25.30	-13.80	-25.95	52.55	Н

FCC ID: U7XMC-7500S

GSM(Ch 661)

Mesured output power: 29.96dBm = 0.991W, Limit: $43+10\log_{10}(W)=42.96dBc$

Frequency	Receiver	Correction	Factor(dB)	EIRP((dBm)	dBc	Polarity
(MHz)	Reading(dBuV	AG(dBi)	CL(dB)	SG Reading	Result	ubc	Polanty
3760.00	49.74	12.75	19.50	-26.60	-33.35	59.78	V
5640.00	46.19	13.15	25.70	-13.30	-25.85	52.28	V

GSM(Ch 810)

Mesured output power: 29.92 dBm = 0.982W, Limit: $43+10log_{10}(W) = 42.92 dBc$

Г	Frequency	Receiver	Correction	Factor(dB)	EIRP	(dBm)	dBc	Polarity
	(MHz)	Reading(dBuV	AG(dBi)	CL(dB)	SG Reading	Result	ubc	Polanty
	3819.60	49.36	12.75	19.50	-27.60	-34.35	61.59	Н
	5729.40	46.33	13.09	26.00	-13.30	-26.21	53.45	V

Report Number: ESTR0805-020.xls 33 of 39



EDGE(Ch 512)

Mesured output power:26.52dBm = 0.448W, Limit: $43+10log_{10}(W)=39.52dBc$

		_	<i>y</i> 810 (
Г	Frequency	Receiver	Correction	Factor(dB)	EIRP((dBm)	dBc	Polarity
L	(MHz)	Reading(dBuV	AG(dBi)	CL(dB)	SG Reading	Result	ubc	
	3700.40	49.17	12.69	19.10	-28.60	-35.01	57.91	V

EDGE(Ch 661)

Mesured output power: 26.77dBm = 0.475W, Limit: $43+10\log_{10}(W)=39.77dBc$

Frequency	Receiver	Correction	Factor(dB)	EIRP((dBm)	dBc	Polarity
(MHz)	Reading(dBuV	AG(dBi)	CL(dB)	SG Reading	Result	ubc	Polanty
3760.00	48.50	12.75	19.50	-27.20	-33.95	57.18	Н

EDGE(Ch 810)

Mesured output power: 26.79 dBm = 0.478 W, Limit: $43+10 \log_{10}(\text{W}) = 39.79 \text{dBc}$

Frequency	Receiver	Correction	Factor(dB)	EIRP((dBm)	dBc	Polarity
(MHz)	Reading(dBuV	AG(dBi)	CL(dB)	SG Reading	Result	ubc	Polarity
3819.60	47.10	12.75	19.50	-29.80	-36.55	60.29	Н

Report Number: ESTR0805-020.xls 34 of 39



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GSM850

GSM(Ch 128)

Mesured output power:33.12dBm = 2.051W, Limit: $43+10log_{10}(W)=46.12dBc$

					C10 ()		
Frequency	Receiver	Correction	Factor(dB)	EIRP((dBm)	dBc	Polarity
(MHz)	Reading(dBuV	AG(dBd)	CL(dB)	SG Reading	Result	ubc	Polanty
1648.40	74.38	9.77	11.60	-20.20	-22.03	47.12	Н
2472.60	63.51	10.49	14.80	-22.00	-26.31	51.40	V

GSM(Ch 190)

Mesured output power: 33.05dBm = 2.018W, Limit: $43+10\log_{10}$ (W)= 46.05dBc

					810()		
Frequency	Receiver	Correction	Factor(dB)	EIRP((dBm)	dBc	Polarity
(MHz)	Reading(dBuV	AG(dBd)	CL(dB)	SG Reading	Result	ubc	Folality
1673.20	72.64	9.94	11.70	-22.20	-23.96	51.07	V
2509.80	62.14	10.62	15.00	-23.00	-27.38	54.49	Н

GSM(Ch 251)

Mesured output power: 33.18dBm = 2.079W, Limit: $43+10log_{10}(W) = 46.18dBc$

	=	,					
Frequency	Receiver	Correction	Factor(dB)	EIRP((dBm)	dBc	Polarity
(MHz)	Reading(dBuV	AG(dBd)	CL(dB)	SG Reading	Result	ubc	Polanty
1697.60	71.07	10.12	11.80	-23.60	-25.28	52.70	V
2546.40	64.89	10.68	15.10	-19.80	-24.22	51.64	Н

Report Number: ESTR0805-020.xls 35 of 39



http://www.estech.co.kr FCC ID: U7XMC-7500S

GSM850 EDGE

GSM(Ch 128)

Mesured output power: 30.11dBm = 1.026W, Limit: $43+10log_{10}(W) = 43.11dBc$

Frequency	Receiver	Correction Factor(dB) EIRP(dBm)		dBc	Polarity		
(MHz)	Reading(dBuV	AG(dBd)	CL(dB)	SG Reading	Result	ubc	1 Olamy
1648.40	66.14	9.77	11.60	-28.50	-30.33	53.52	V
1673.20	59.14	10.49	14.80	-26.30	-30.61	53.80	Н

GSM(Ch 190)

Mesured output power: 30.15dBm = 1.035W, Limit: $43+10\log_{10}$ (W)= 43.15dBc

	• •		•	010	· · ·		
Frequency Receiver		Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
(MHz)	Reading(dBuV	AG(dBd)	CL(dB)	SG Reading	Result	ubc	1 Olanty
1673.20	65.14	9.94	11.70	-30.70	-32.46	57.07	V
2509.80	58.30	10.62	15.00	-26.80	-31.18	55.79	V

GSM(Ch 251)

Mesured output power: 30.44dBm = 1.107W, Limit: $43+10log_{10}(W) = 43.44dBc$

				CIU			
Frequency Receiver		Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
(MHz)	Reading(dBuV	AG(dBd)	CL(dB)	SG Reading	Result	ubc	1 Clarity
1697.60	64.50	10.12	11.80	-23.60	-25.28	50.00	V
2546.40	59.64	10.68	15.10	-19.80	-24.22	48.94	V

Report Number: ESTR0805-020.xls 36 of 39

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FCC ID:

U7XMC-7500S

8. Frequency stability

8.1 Test Procedure

The frequency stability of the transmitter is measured by:

- a) Temperature: The temperature is varied from -30 $^{\circ}$ C to +60 $^{\circ}$ C using an environmental chamber.
- **b) Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.
- ** The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ± 2.5 ppm of the center frequency.

8.2 Test Equipments

The following test equipments are used during tests

Equipment	Manufacturer	Model	Cal. Due Date
Communications Test	Agilent	E5515C	2009-02-12
DC Power Supply	INTERACT	AK-3010	2009-02-28
Tem/Hum Chamber	Myung Technology	SM-150-2	2009-02-28

Report Number: ESTR0805-020.xls 37 of 39

FCC ID: U7XMC-7500S

8.3 Test Results

PCS1900

 Operting Frequency :
 1,880,000,000

 Channel :
 661

 Reference Voltage :
 3.70

 Deviatin Limit :
 0.00025

Voltage	Power	Temperature	Frequency	Deviation
(%)	(VDC)	(℃)	(Hz)	
100		+20°C(Ref)	1,880,000,002	0.000000
100		-30	1,879,999,973	0.000002
100		-20	1,879,999,978	0.000001
100		-10	1,879,999,978	0.000001
100	3.70	0	1,879,999,977	0.000001
100		10	1,879,999,985	0.000001
100		20	1,880,000,002	0.000000
100		25	1,879,999,976	0.000001
100		30	1,879,999,978	0.000001
100		40	1,879,999,982	0.000001
100		50	1,879,999,976	0.000001
100		60	1,879,999,974	0.000001
85	3.15	20	1,879,999,972	0.000002
115	4.26	20	1,879,999,979	0.000001
Batt EndPoint	3.00	20	1,879,999,974	0.000001

Report Number: ESTR0805-020.xls 38 of 39



GSM850

 Operting Frequency :
 836,600,000

 Channel :
 190

 Reference Voltage :
 3.70

 Deviatin Limit :
 0.00025

Voltage	Power	Temperature	Frequency	Deviation
(%)	(VDC)	(℃)	(Hz)	
100		+20°C(Ref)	836,600,001	0.000000
100		-30	836,599,972	0.000003
100		-20	836,599,974	0.000003
100		-10	836,599,982	0.000002
100	3.70	0	836,599,984	0.000002
100		10	836,599,973	0.000003
100		20	836,600,001	0.000000
100		25	836,599,981	0.000002
100		30	836,599,985	0.000002
100		40	836,599,977	0.000003
100		50	836,599,979	0.000003
100		60	836,599,972	0.000003
85	3.15	20	836,599,973	0.000003
115	4.26	20	836,599,984	0.000002
Batt EndPoint	3.00	20	836,599,973	0.000003

Report Number: ESTR0805-020.xls 39 of 39