



FCC TEST REPORT

Product Name	GSM Phone with Bluetooth
Model Name	KM500d
Applicant	LG Electronics Inc.
FCC ID	BEJKM500D

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



FCC Test Report

Report Number	ESTR0710-013			
Applicant	Company Name	LG Electronics Inc.		
	Address	60-39, Gasan-dong, Gumchon-gu, Seoul, 153-023, Korea		
Product	Product Name	GSM Phone with Bluetooth		
	Model No.	KM500d	Manufacturer	LG Electronics Inc.
	Additional Model(s)	KM500c		
	Serial No.	None	Country of origin	KOREA
Other	Issued Date	2007-10-12	Tested Date	2007-10-02 ~ 2007-10-12
Test Result	Pass			
Standard	FCC PART 24 Subpart E & PART 22 Subpart H			
Tested by	I,K,Hong/ Engineer (Sig )			
Approved by	Jay Kim/ Engineering 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.				



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	BEJKM500D
Product Name	GSM Phone with Bluetooth
Model Name	KM500d
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)



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



Industry Canada **Industrie Canada**



3. Summary of Test Results

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



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	HP	EPM-442A	2008-03-02
Wireless Communications Test Set	Agilent	E5515C	2008-02-07
Pre Amplifier	HP	847F	2008-03-06
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2008-03-31

4.3. Test Results

4.3.1 PCS1900

(GSM)

Ch No.	Freq (MHz)	Peak Power Meter(dBm)	Peak Power EIRP(dBm)
512	1850.20	29.32	28.30
661	1880.00	29.19	28.23
810	1909.80	29.22	27.14



FREQ (MHz)	Receiver Reading (dBuV)	Correction Factor (dB)		SG Reading (dBm)	EIRP (dBm)	Limit (dBm)	POL (H/V)
		Antenna gain(dBi)	Cable Loss (dB)				
1850.20	89.34	10.40	12.50	30.40	28.30	33	H
1880.00	89.50	10.43	12.60	30.40	28.23	33	H
1909.80	88.10	10.44	12.70	29.40	27.14	33	H

(EDGE)

Ch No.	Freq (MHz)	Peak Power Meter(dBm)	Peak Power EIRP(dBm)
512	1850.20	26.04	26.10
661	1880.00	25.97	25.83
810	1909.80	26.05	25.84

FREQ (MHz)	Receiver Reading (dBuV)	Correction Factor (dB)		SG Reading (dBm)	EIRP (dBm)	Limit (dBm)	POL (H/V)
		Antenna gain(dBi)	Cable Loss (dB)				
1850.20	87.07	10.40	12.50	28.20	26.10	33	H
1880.00	87.12	10.43	12.60	28.00	25.83	33	H
1909.80	86.81	10.44	12.70	28.10	25.84	33	H



4.3.2 GSM850

(GSM)

Ch No.	Freq (MHz)	Peak Power Meter(dBm)	Peak Power ERP(dBm)
128	824.20	32.42	30.39
190	836.60	32.49	30.51
251	848.80	32.39	30.22

FREQ (MHz)	Receiver Reading (dBuV)	Correction Factor (dB)		SG Reading (dBm)	ERP (dBm)	Limit (dBm)	POL (H/V)
		Antenna gain(dBd)	Cable Loss (dB)				
824.20	99.40	0.99	8.90	38.30	30.39	38.5	H
836.60	99.40	1.31	9.10	38.30	30.51	38.5	H
848.80	99.71	1.62	9.20	37.80	30.22	38.5	H

(EDGE)

Ch No.	Freq (MHz)	Peak Power Meter(dBm)	Peak Power ERP(dBm)
128	824.20	27.20	27.69
190	836.60	27.07	27.61
251	848.80	26.95	27.32



FREQ (MHz)	Receiver Reading (dBuV)	Correction Factor (dB)		SG Reading (dBm)	ERP (dBm)	Limit (dBm)	POL (H/V)
		Antenna gain(dBd)	Cable Loss (dB)				
824.20	96.70	0.99	8.90	35.60	27.69	38.5	H
836.60	96.45	1.31	9.10	35.40	27.61	38.5	H
848.80	96.80	1.62	9.20	34.90	27.32	38.5	H



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	2008-03-02
Dual Directional Coupler	HP	778D	2008-03-02
Wireless Communications Test Set	Agilent	E5515C	2008-02-07

5.3 Test Results

5.3.1 PCS1900

(GSM)

Channel	Frequency(MHz)	26dB Bandwidth(kHz)
512	1850.20	298.19
661	1880.00	300.38
810	1909.80	297.41

(EDGE)

Channel	Frequency(MHz)	26dB Bandwidth(kHz)
512	1850.20	299.18
661	1880.00	300.42
810	1909.80	300.27



5.3.2 GSM850

(GSM)

Channel	Frequency(MHz)	26dB Bandwidth(kHz)
128	824.20	300.32
190	836.60	300.08
251	848.80	299.07

(EDGE)

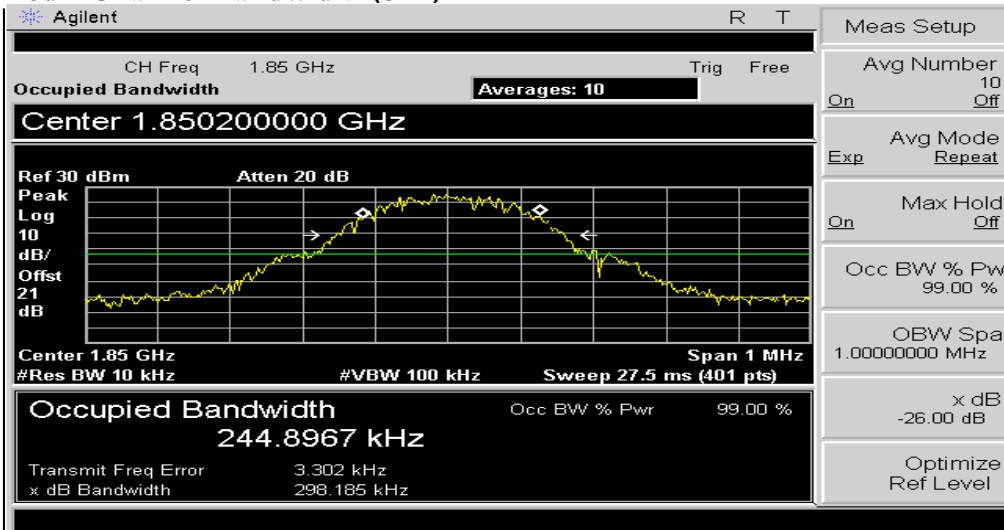
Channel	Frequency(MHz)	26dB Bandwidth(kHz)
128	824.20	299.72
190	836.60	300.03
251	848.80	295.89



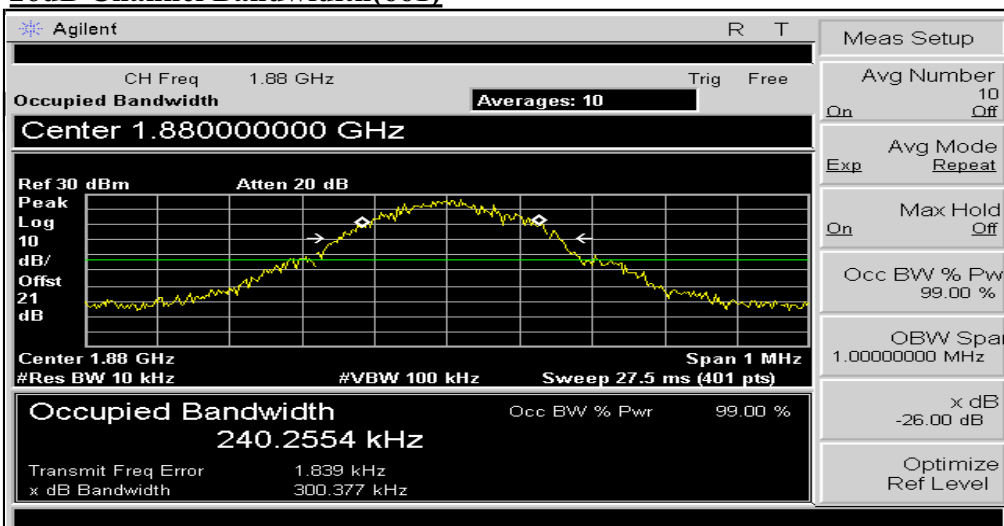
5.4 Test Plot

PCS1900 GSM

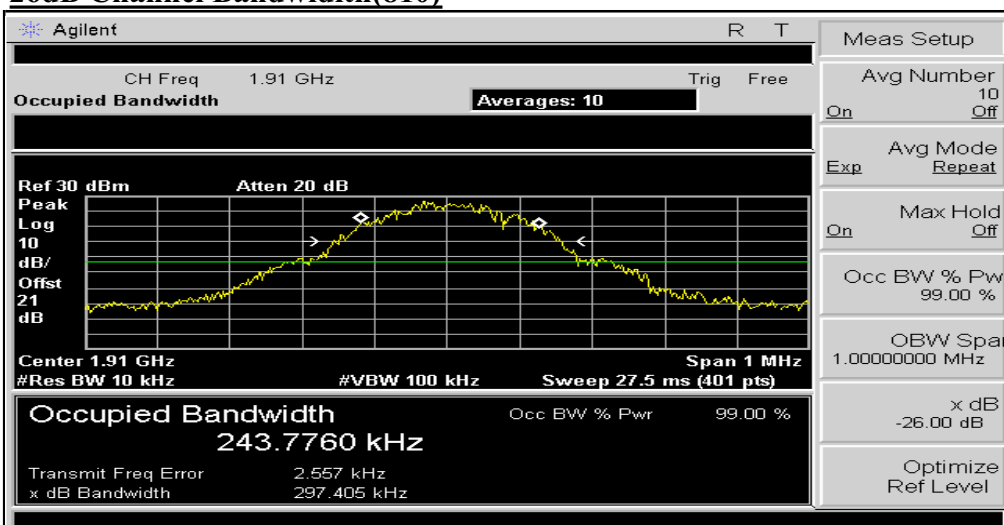
26dB Channel Bandwidth(512)



26dB Channel Bandwidth(661)



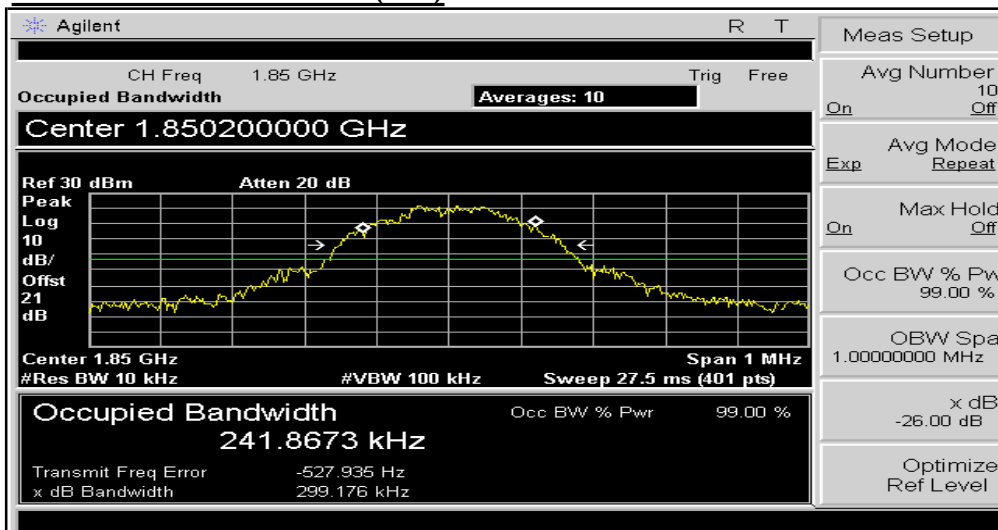
26dB Channel Bandwidth(810)



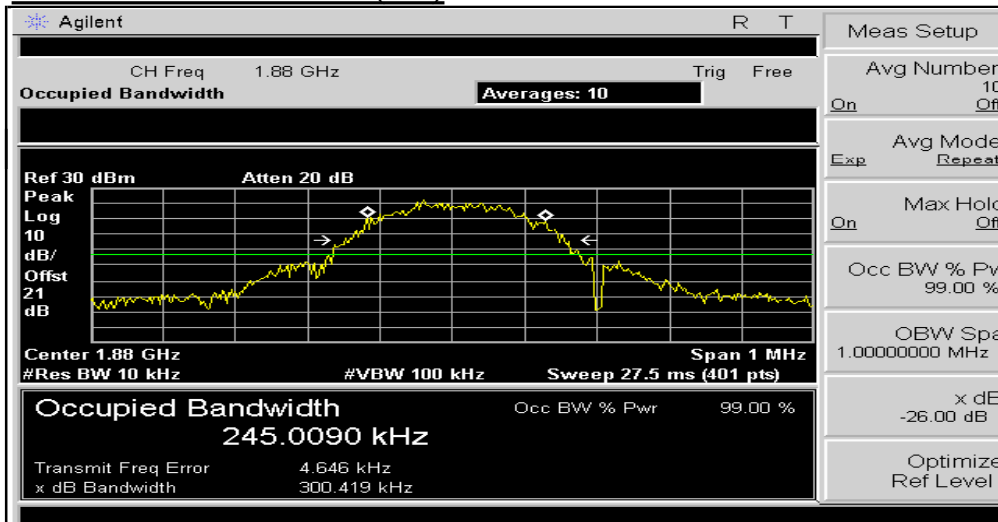


PCS1900 EDGE

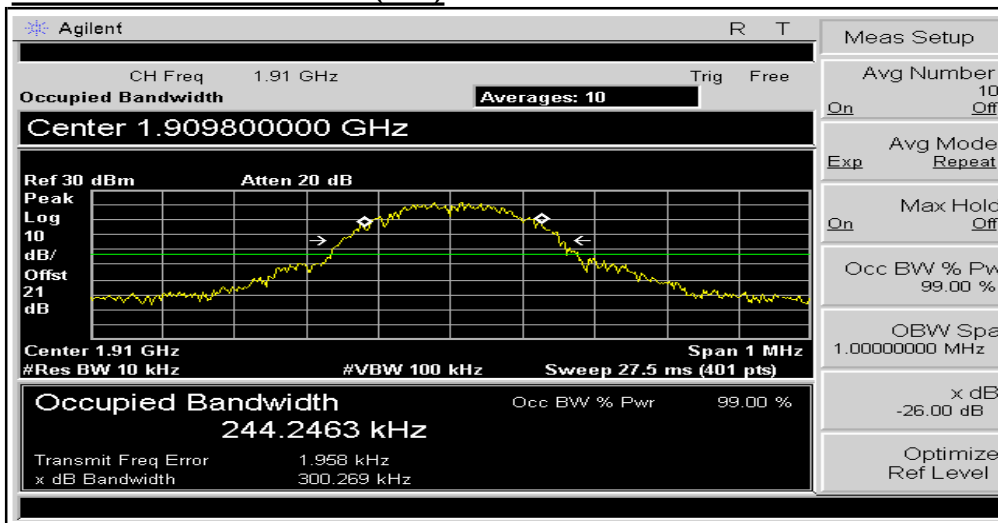
26dB Channel Bandwidth(512)



26dB Channel Bandwidth(661)



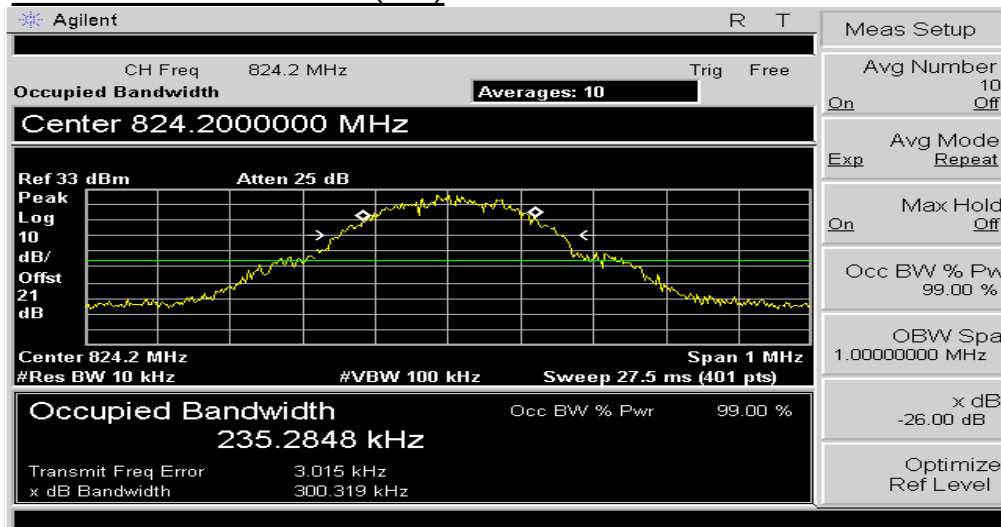
26dB Channel Bandwidth(810)



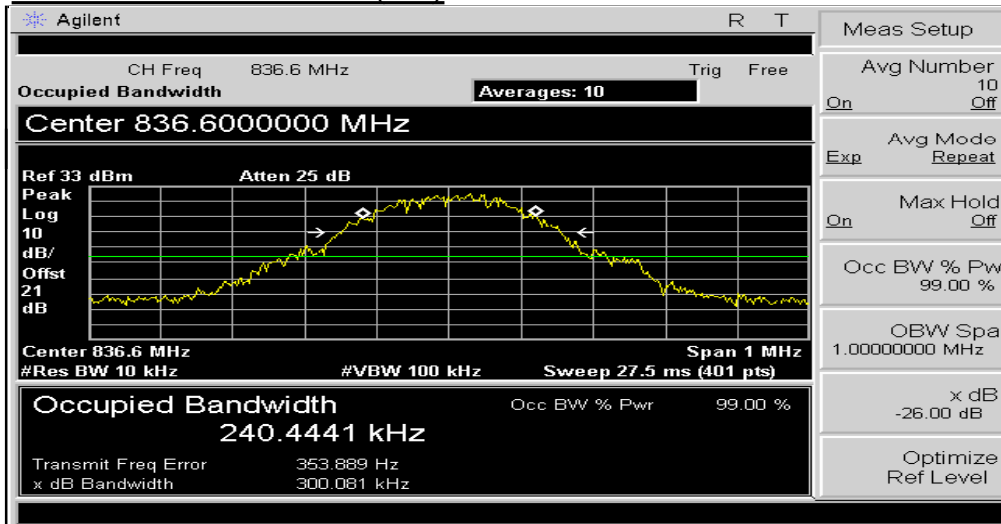


GSM850

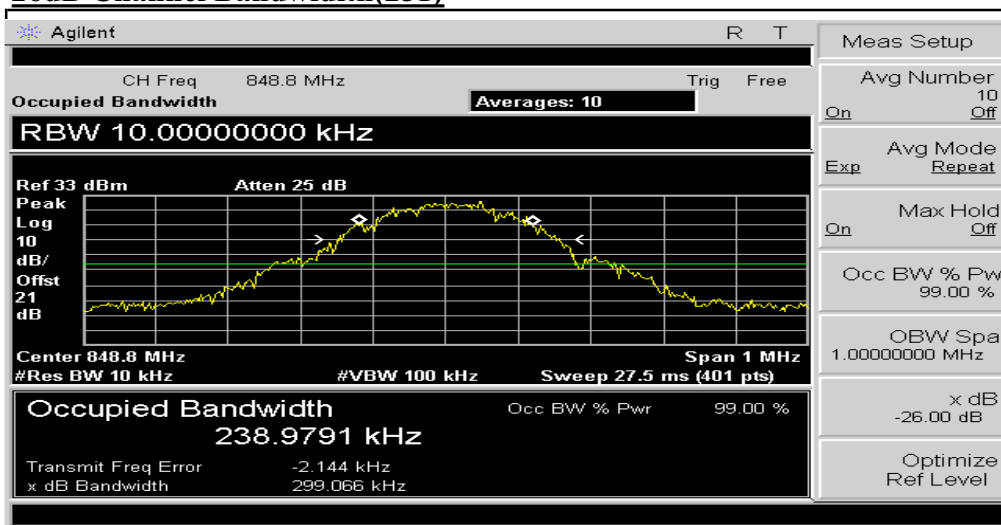
26dB Channel Bandwidth(128)



26dB Channel Bandwidth(190)



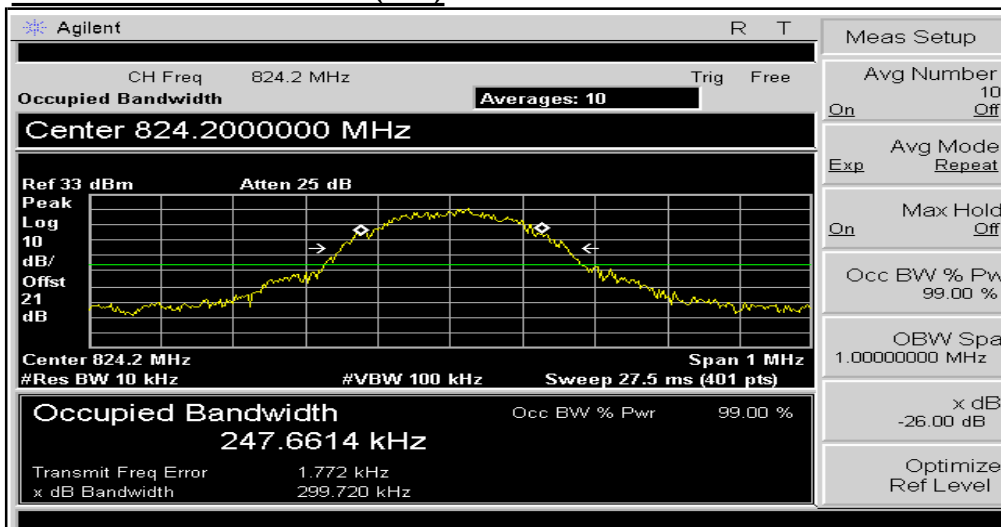
26dB Channel Bandwidth(251)



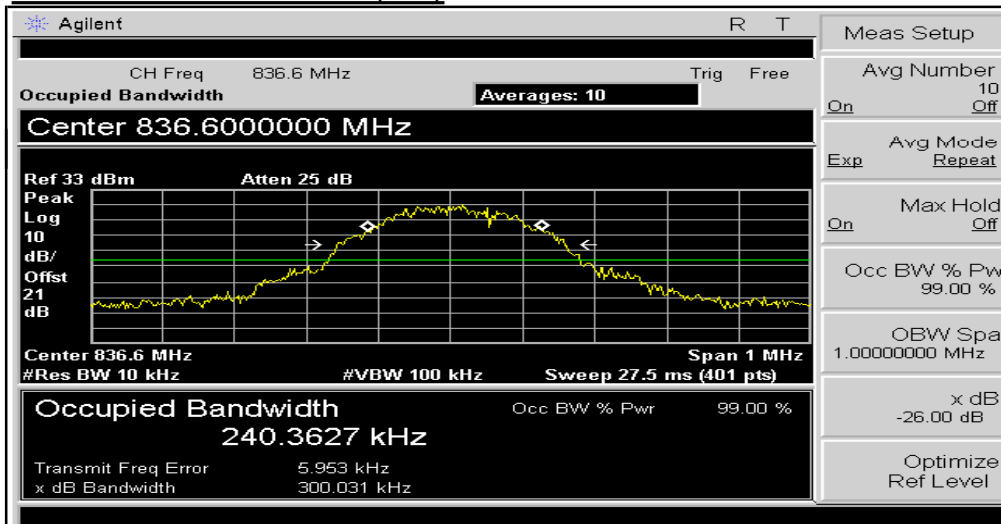


GSM850 EDGE

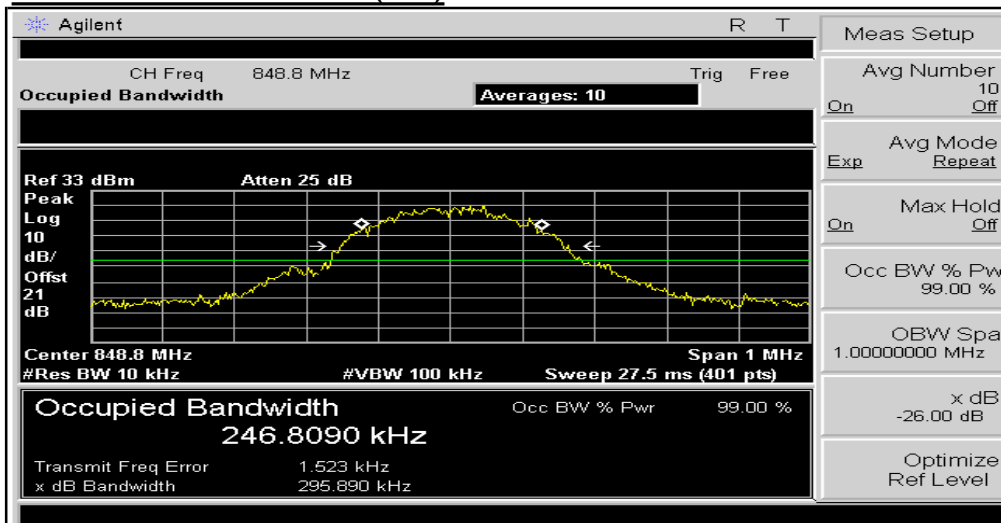
26dB Channel Bandwidth(128)



26dB Channel Bandwidth(190)



26dB Channel Bandwidth(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.

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	2008-03-02
Dual Directional Coupler	HP	778D	2008-03-02
Wireless Communications Test Set	Agilent	E5515C	2008-02-07

6.3 Test Results

6.3.1 PCS1900

GSM(Spurious Emission: Band Edge)

Channel	Frequency	Result	Limit	Margin
512	1850.20	-17.59	-13.00	4.59
810	1909.80	-16.57	-13.00	3.57

GSM (Spurious Emission: Out of Band)

Channel	Frequency	Result	Limit	Margin
512	1850.20	-26.72	-13.00	13.72
661	1880.00	-27.55	-13.00	14.55
810	1909.80	-27.36	-13.00	14.36



(EDGE)

EDGE(Spurious Emission: Band Edge)

Channel	Frequency	Result	Limit	Margin
512	1850.20	-24.94	-13.00	11.94
661	1880.00	-24.53	-13.00	11.53

EDGE (Spurious Emission: Out of Band)

Channel	Frequency	Result	Limit	Margin
512	1850.20	-26.57	-13.00	13.57
661	1880.00	-27.22	-13.00	14.22
810	1909.80	-27.12	-13.00	14.12

6.3.2 GSM850

GSM(Spurious Emission: Band Edge)

Channel	Frequency	Result	Limit	Margin
128	824.20	-14.14	-13.00	1.14
190	836.60	-17.20	-13.00	4.20

GSM (Spurious Emission: Out of Band)

Channel	Frequency	Result	Limit	Margin
128	824.20	-22.01	-13.00	9.01
190	836.60	-23.15	-13.00	10.15
251	848.80	-22.67	-13.00	9.67



(EDGE)

EDGE(Spurious Emission: Band Edge)

Channel	Frequency	Result	Limit	Margin
128	824.20	-26.02	-13.00	13.02
190	836.60	-25.47	-13.00	12.47

EDGE (Spurious Emission: Out of Band)

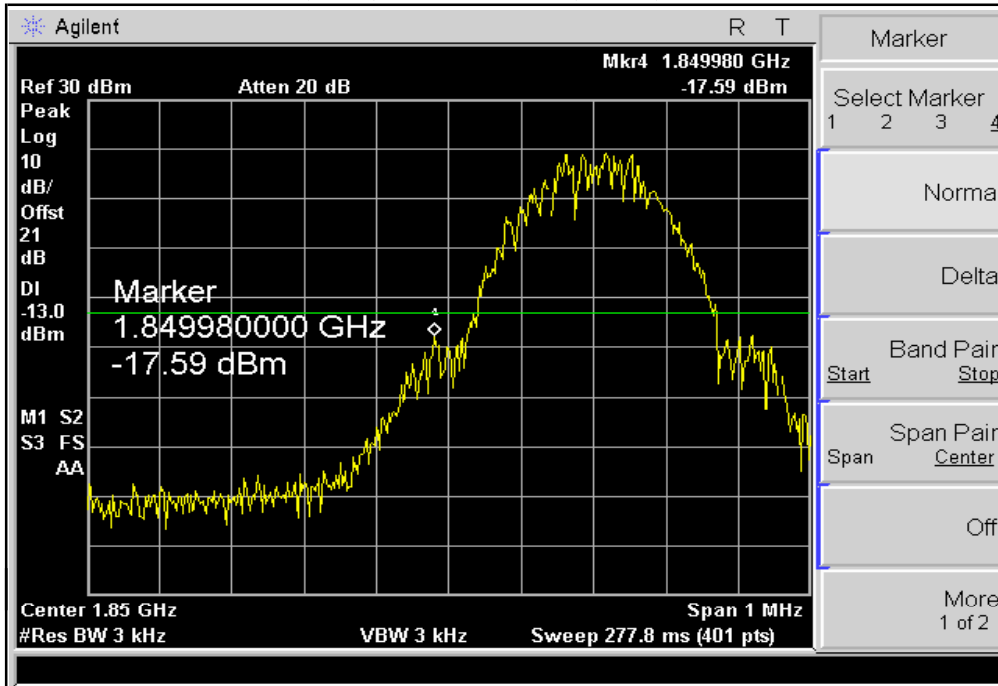
Channel	Frequency	Result	Limit	Margin
128	824.20	-22.98	-13.00	9.98
190	836.60	-23.03	-13.00	10.03
251	848.80	-22.35	-13.00	9.35



6.5 Test Plot

PCS1900

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



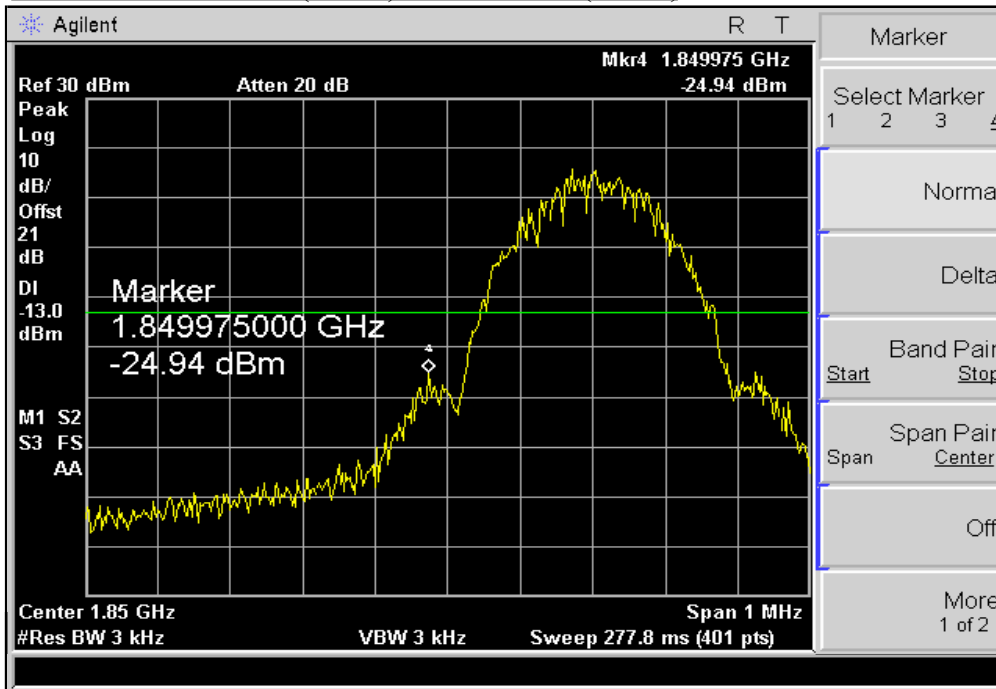
PLOTS OF EMISSION (GSM): BAND EDGE(Ch810)





PCS1900 EDGE

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



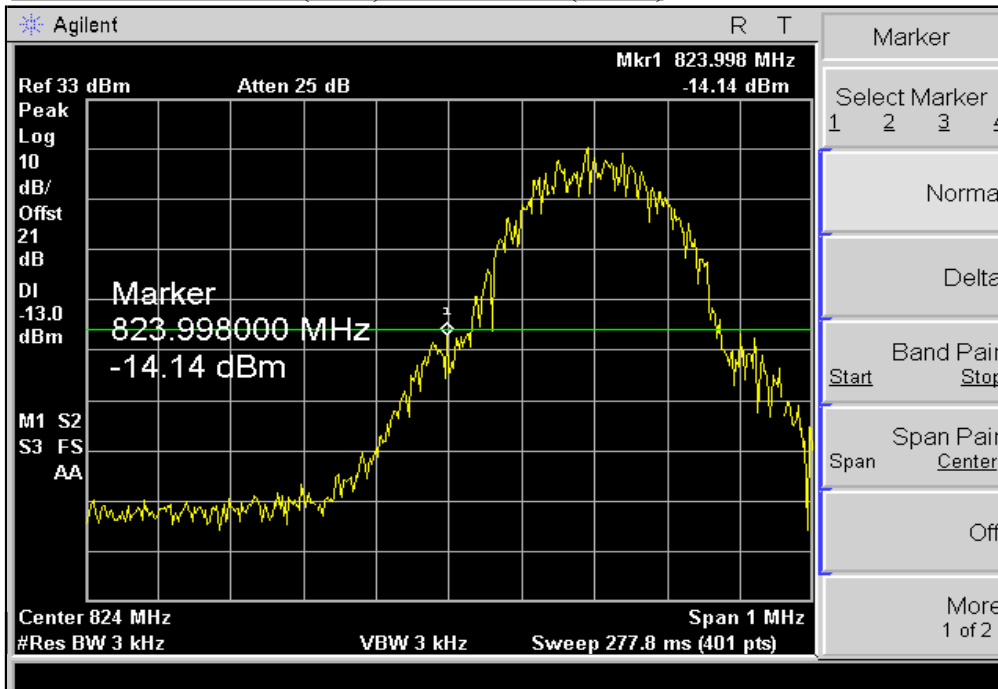
PLOTS OF EMISSION (EDGE): BAND EDGE(Ch810)



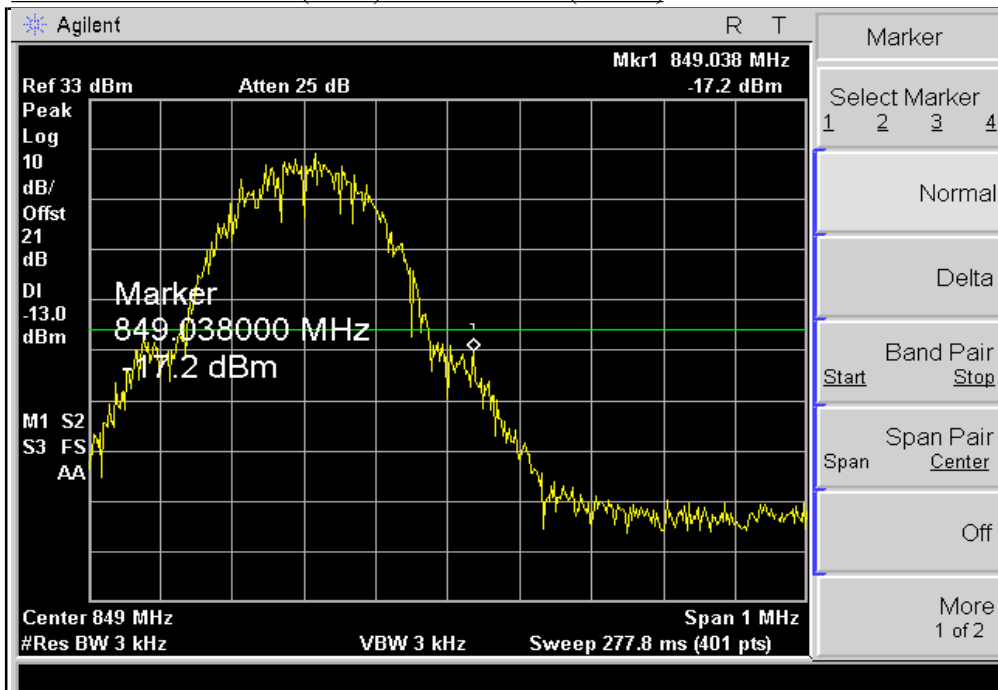


GSM850

PLOTS OF EMISSION (GSM): BAND EDGE(Ch128)



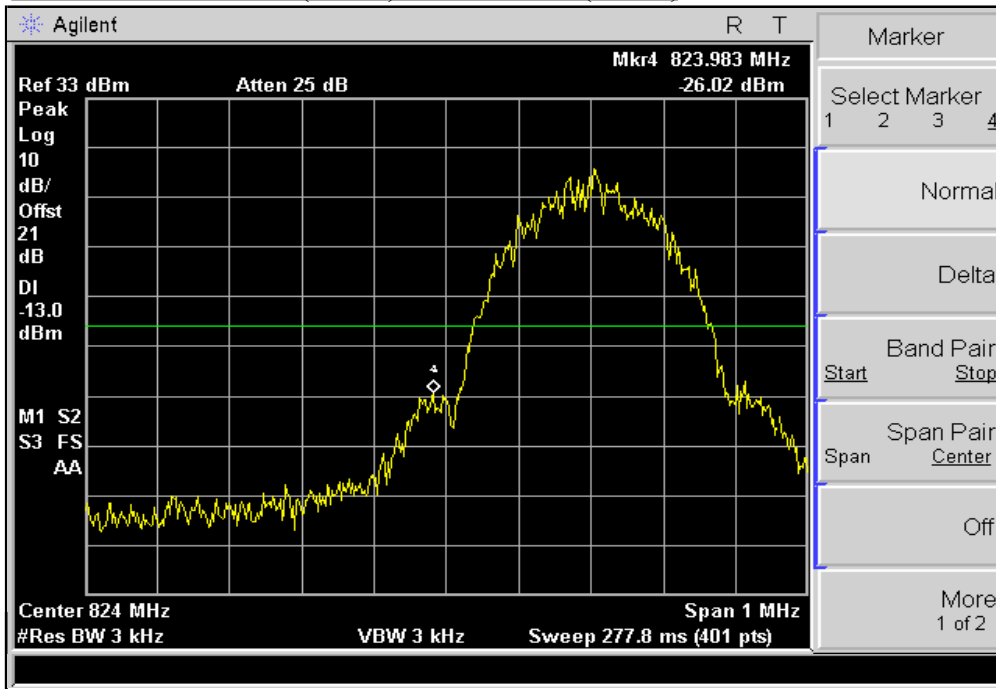
PLOTS OF EMISSION (GSM): BAND EDGE(Ch251)



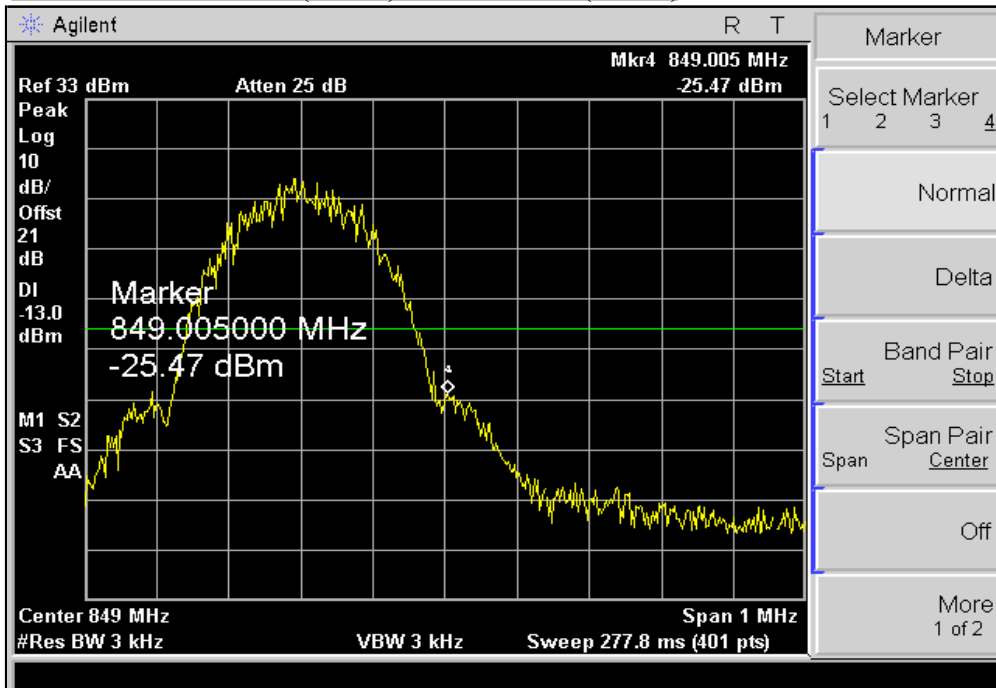


GSM850 EDGE

PLOTS OF EMISSION (EDGE): BAND EDGE(Ch128)



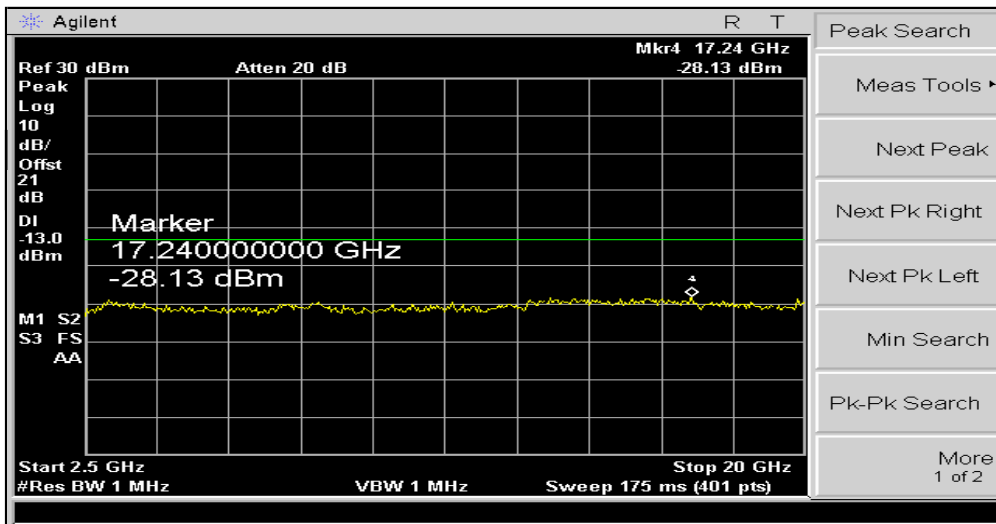
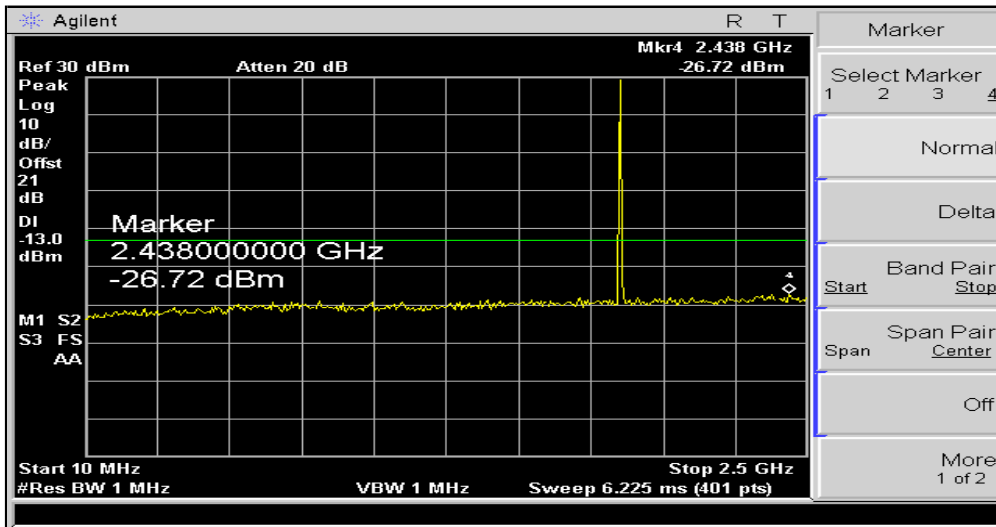
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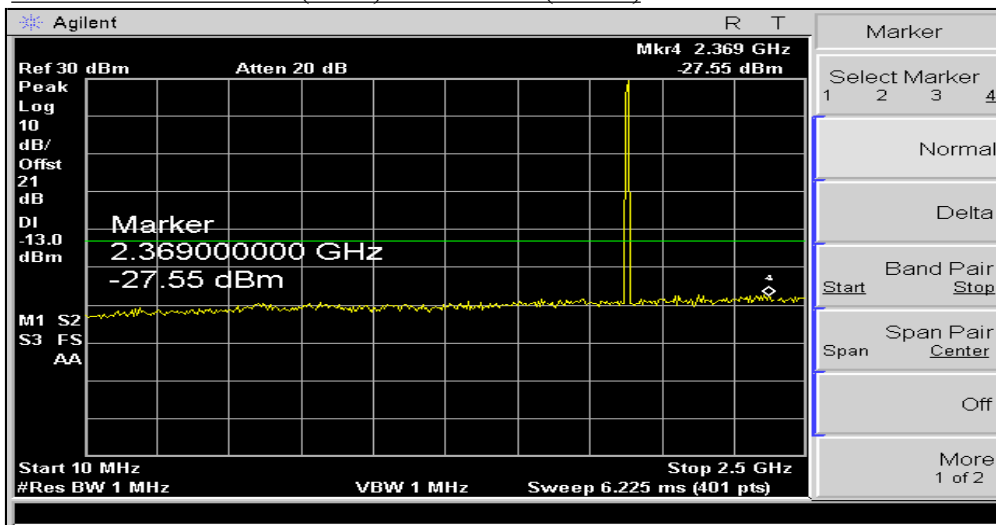


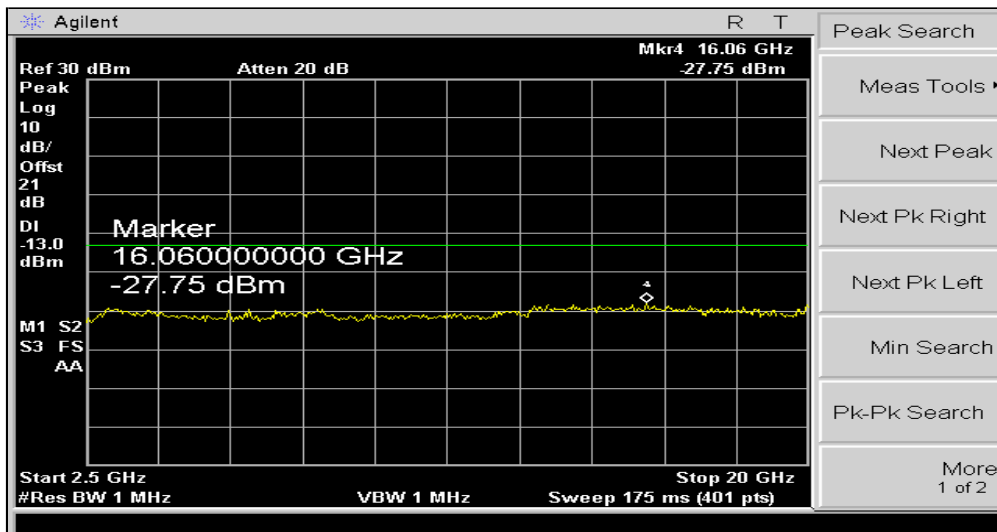
PCS1900

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

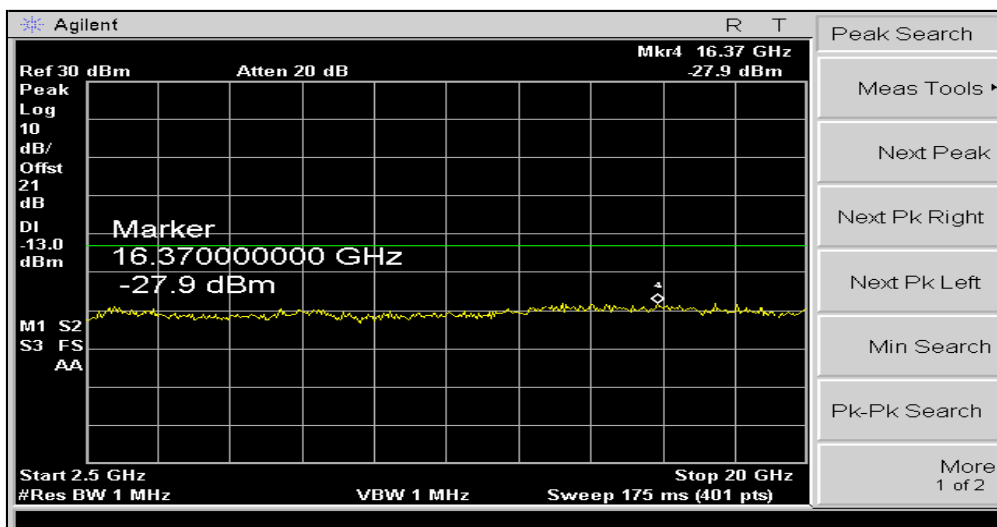
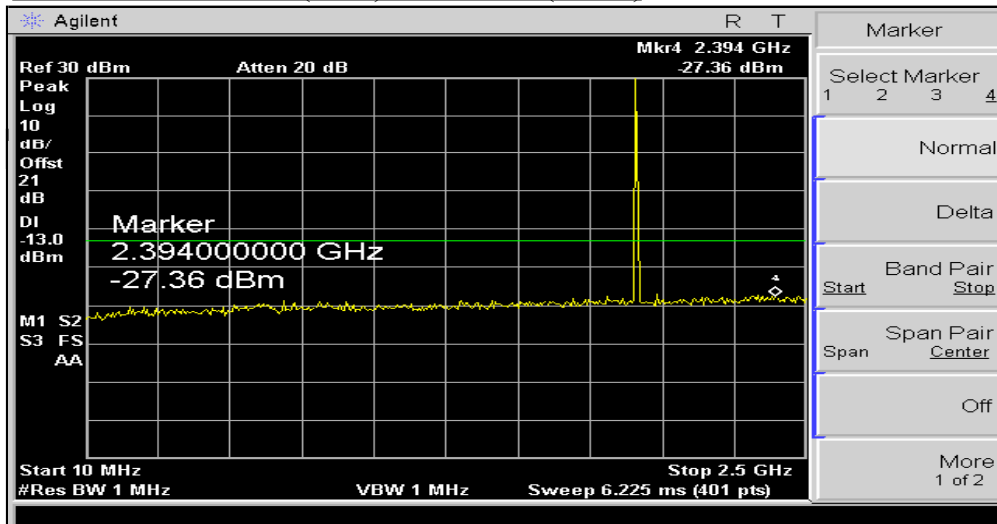


PLOTS OF EMISSION (GSM): Out of Band(Ch661)





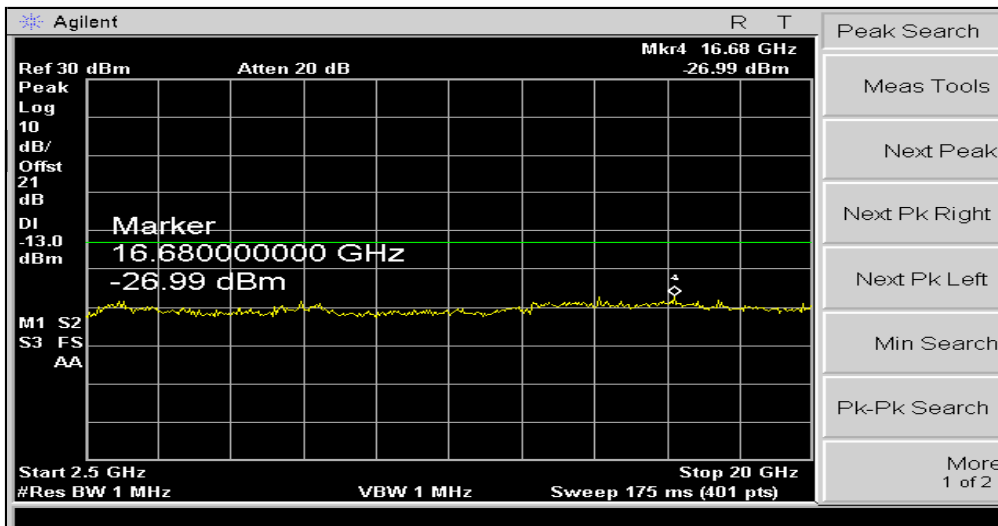
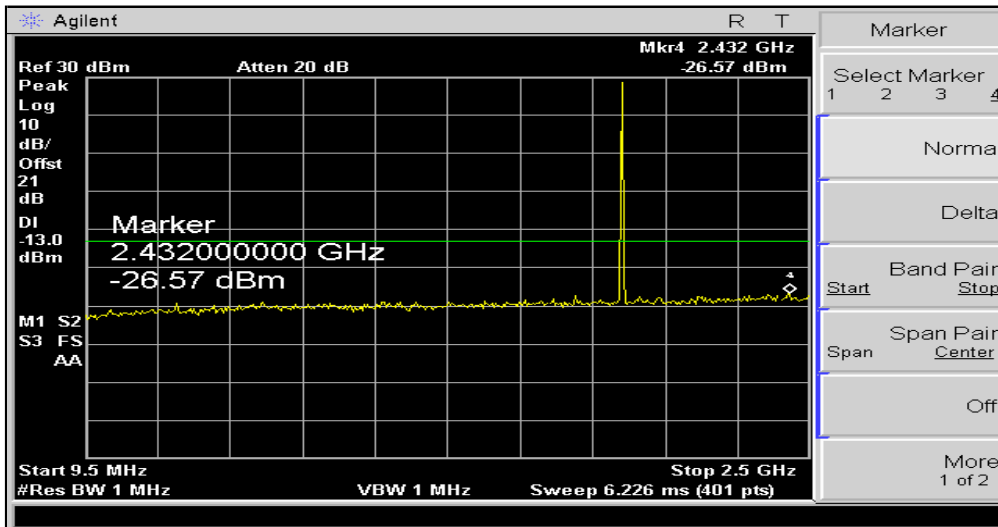
PLOTS OF EMISSION (GSM): Out of Band(Ch810)



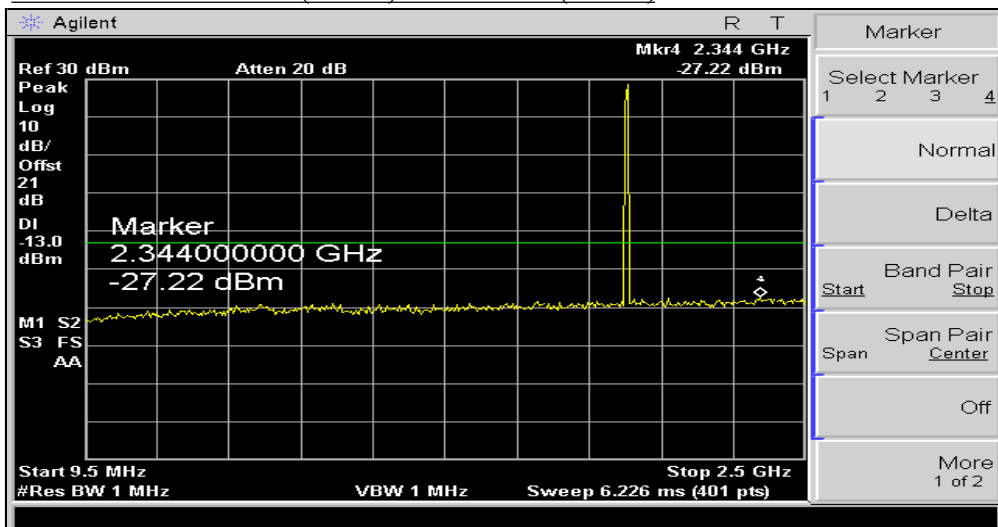


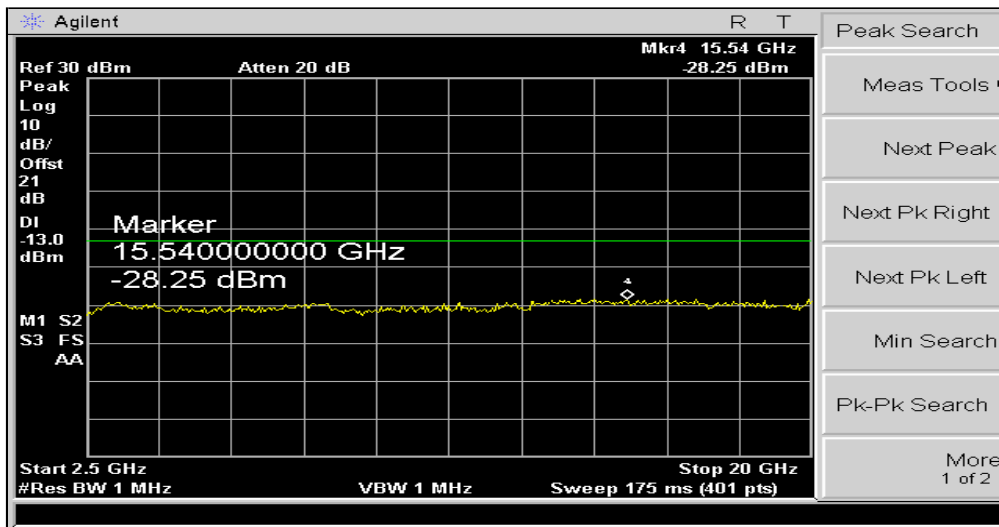
PCS1900 EDGE

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

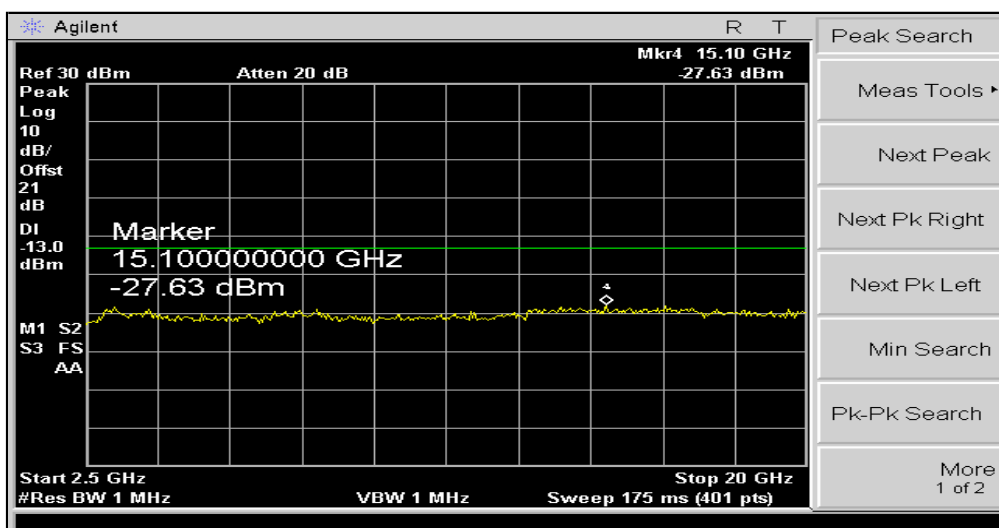
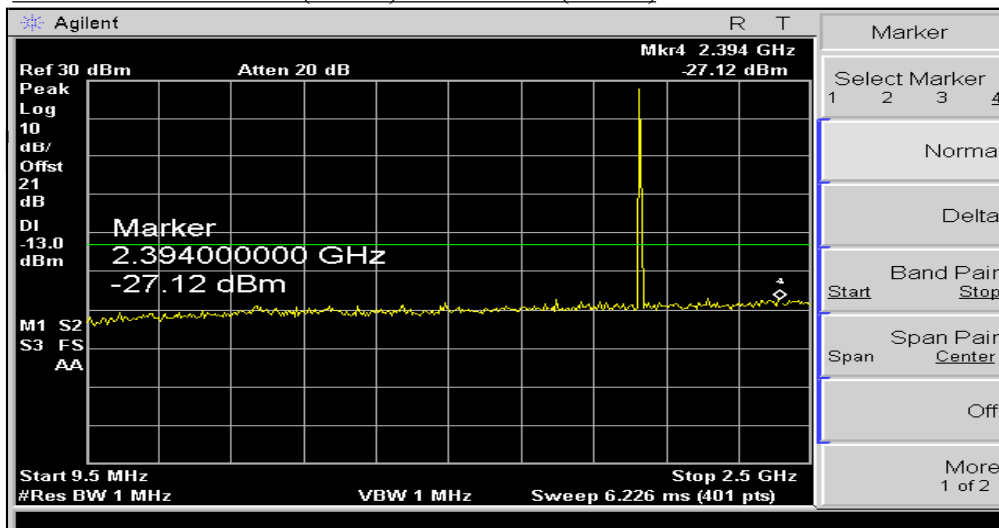


PLOTS OF EMISSION (EDGE): Out of Band(Ch661)





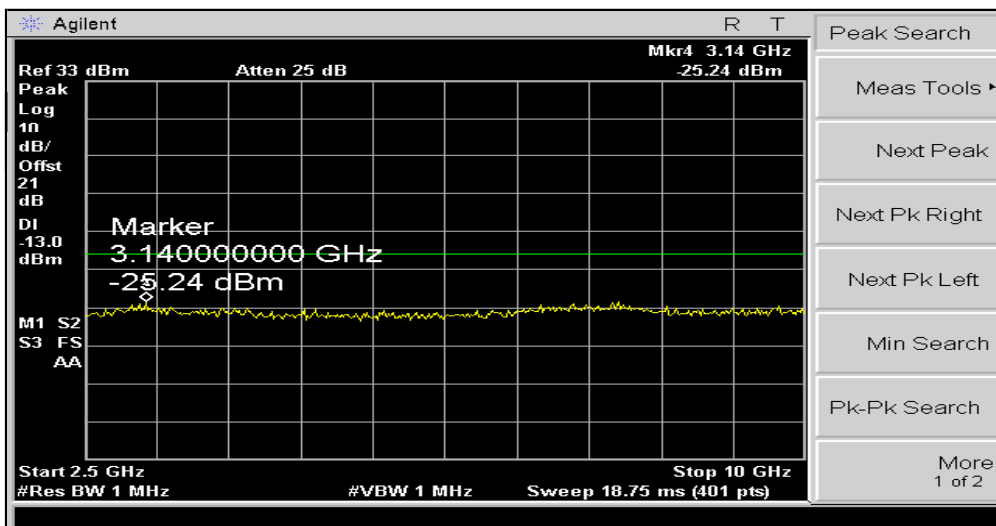
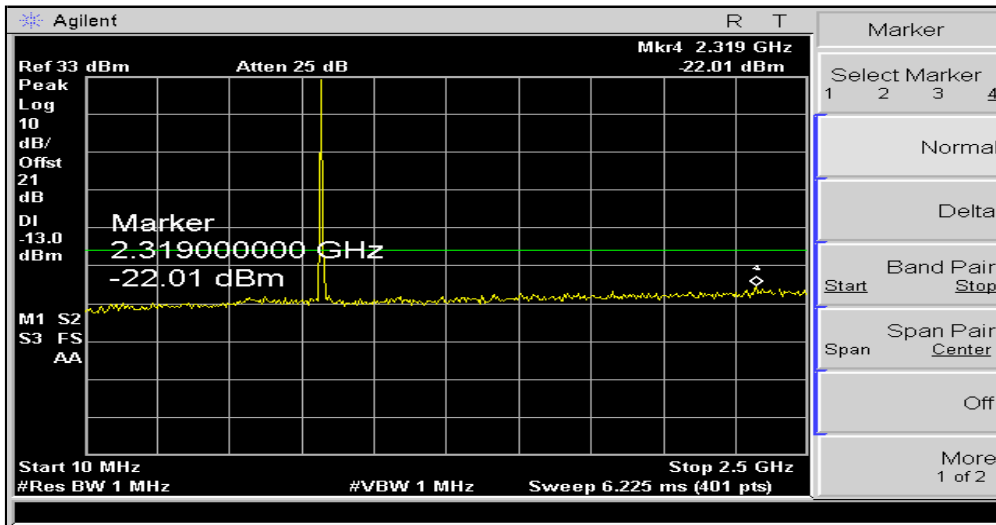
PLOTS OF EMISSION (EDGE): Out of Band(Ch810)



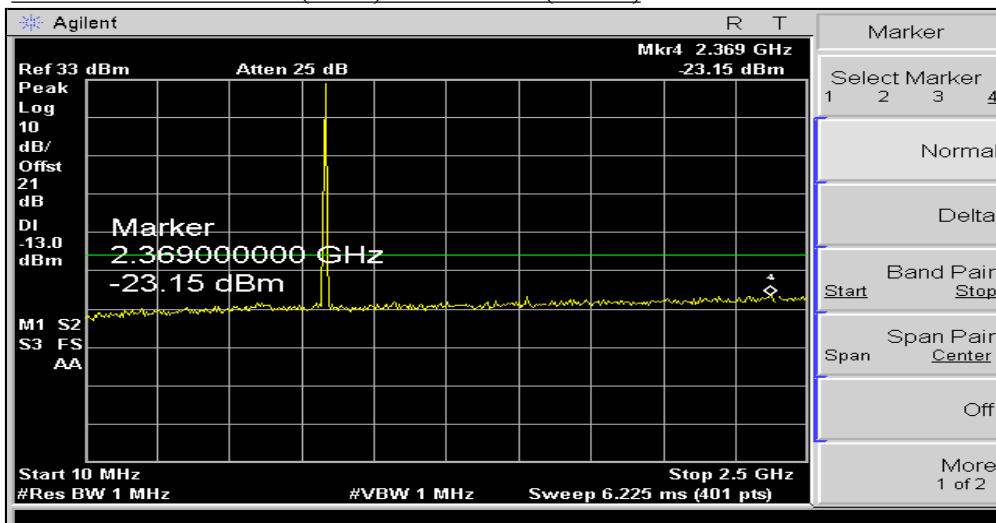


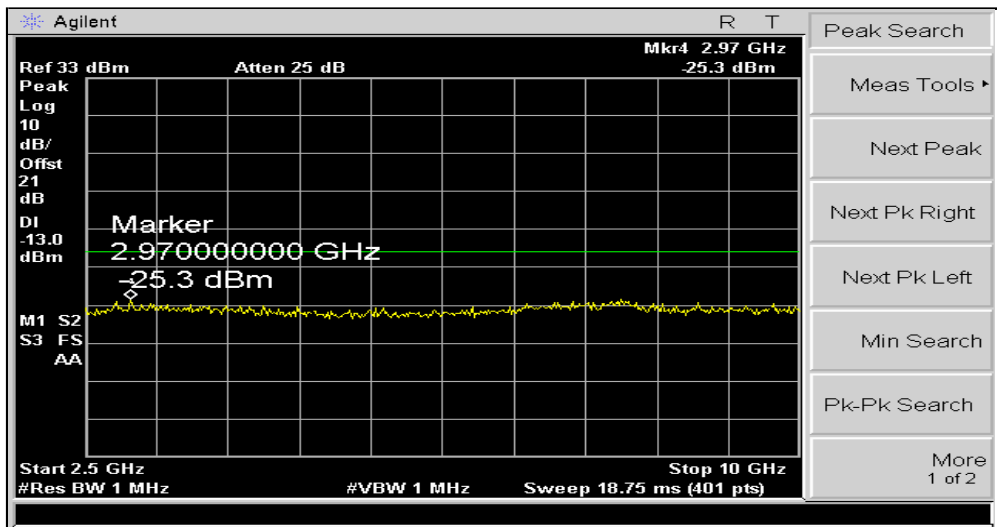
GSM850

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

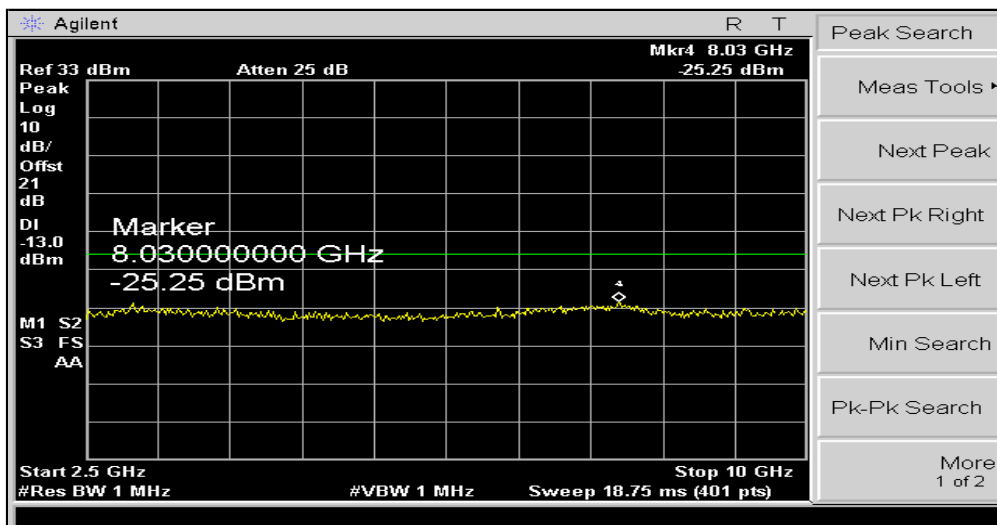
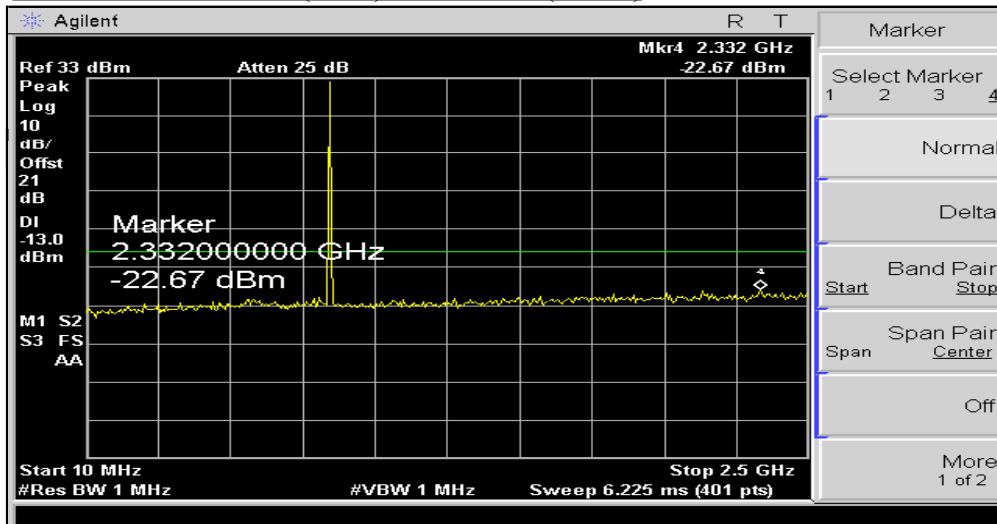


PLOTS OF EMISSION (GSM): Out of Band(Ch190)



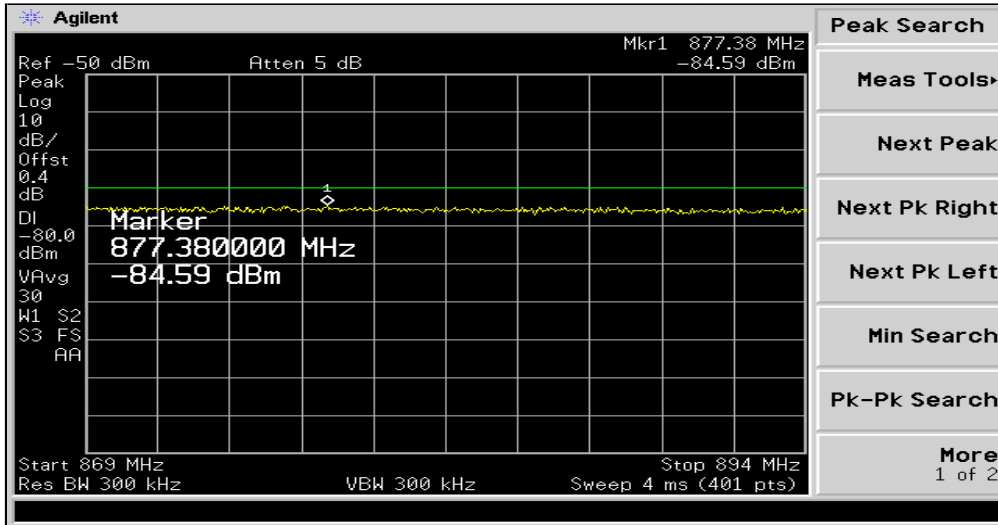


PLOTS OF EMISSION (GSM): Out of Band(Ch251)





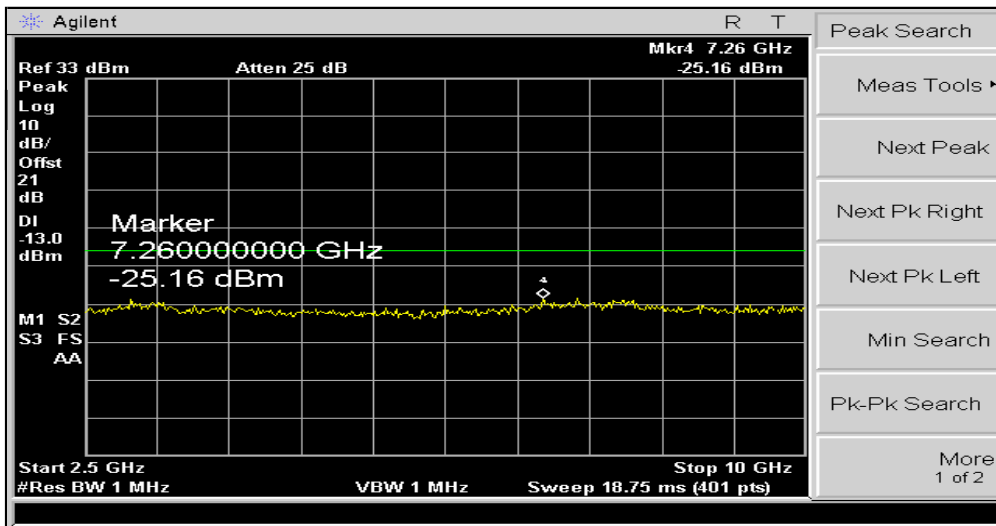
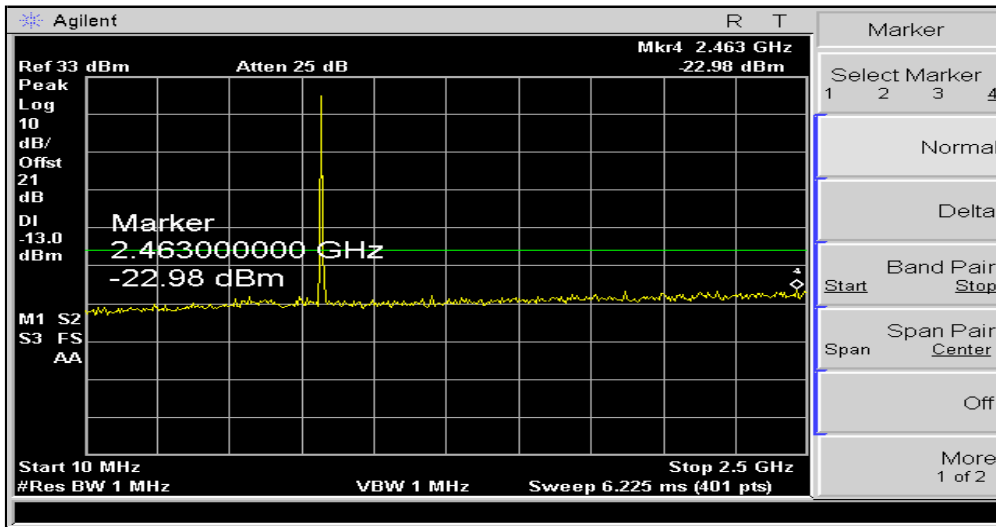
MOBILE EMISSION IN BASE FREQUENCY RANGE (RX BAND)



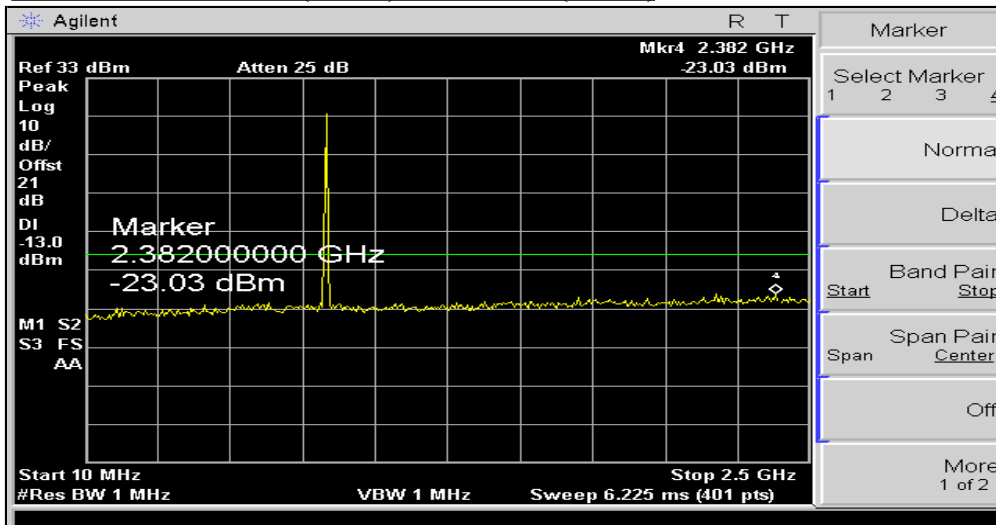


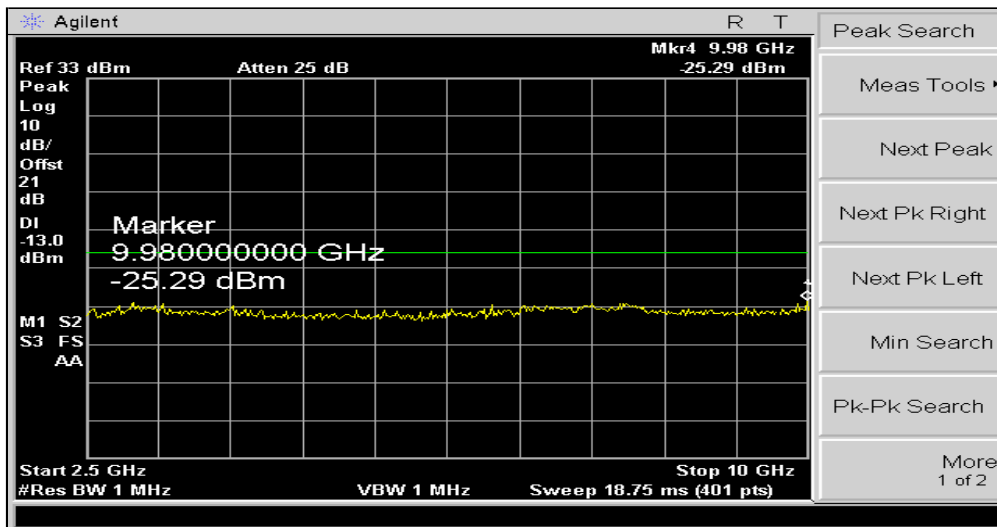
GSM850 EDGE

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

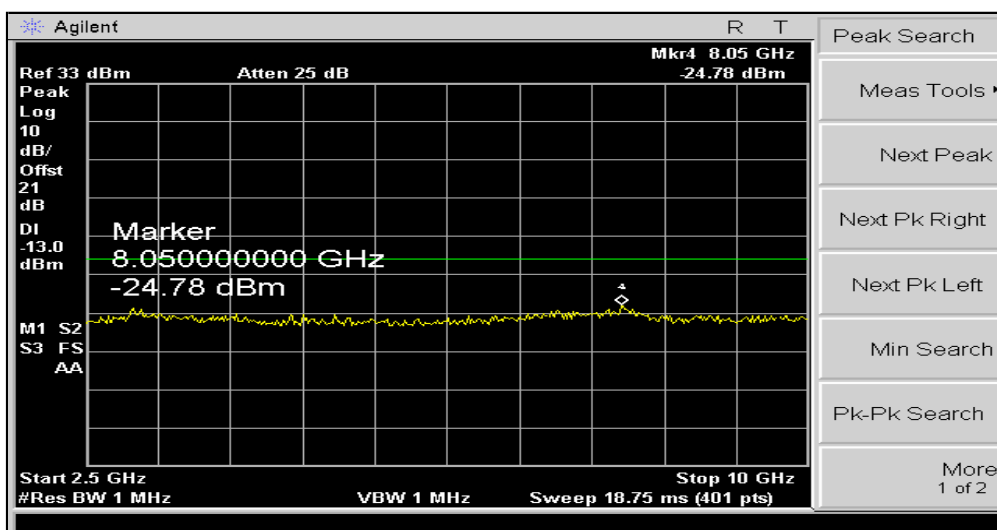
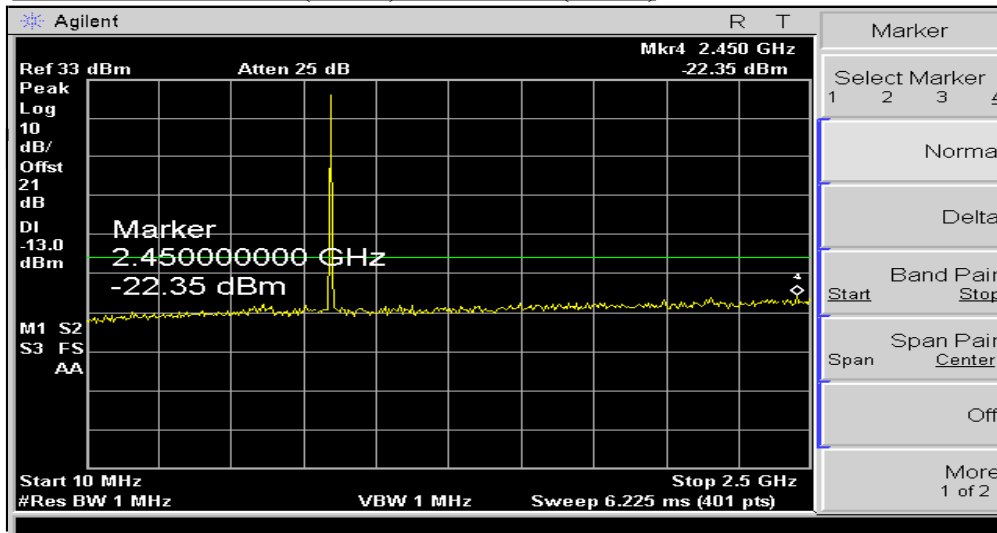


PLOTS OF EMISSION (EDGE): Out of Band(Ch190)





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

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	2008-02-07
Pre Amplifier	HP	847F	2008-03-26
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2008-03-31

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



7.3 Test Results

PCS1900

GSM(Ch 512)

Mesured output power: 28.30dBm = 0.676W, Limit: 43+10log₁₀(W)= 41.30dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBi)	CL(dB)	SG Reading	Result		
3700.40	54.26	12.69	19.10	-23.80	-30.21	58.51	H
5550.60	49.12	13.15	25.30	-11.60	-23.75	52.05	V

GSM(Ch 661)

Mesured output power: 28.23dBm = 0.665W, Limit: 43+10log₁₀(W)= 41.23dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBi)	CL(dB)	SG Reading	Result		
3760.00	55.41	12.75	19.50	-21.70	-28.45	56.68	H
5640.00	46.85	13.15	25.70	-13.00	-25.55	53.78	V

GSM(Ch 810)

Mesured output power: 27.14dBm = 0.518W, Limit: 43+10log₁₀(W)= 40.14dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBi)	CL(dB)	SG Reading	Result		
3819.60	57.55	12.75	19.50	-19.70	-26.45	53.59	H
5729.40	46.31	13.09	26.00	-13.20	-26.11	53.25	V



EDGE(Ch 512)

Mesured output power: 26.10dBm = 0.407W, Limit: 43+10log₁₀(W)= 39.10dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBi)	CL(dB)	SG Reading	Result		
3700.40	54.26	12.69	19.10	-25.20	-31.61	57.71	H
5550.60	49.12	13.15	25.30	-12.60	-24.75	50.85	V

EDGE(Ch 661)

Mesured output power: 25.83dBm = 0.383W, Limit: 43+10log₁₀(W)= 38.83dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBi)	CL(dB)	SG Reading	Result		
3760.00	50.66	12.75	19.50	-26.40	-33.15	58.98	H
5640.00	46.66	13.15	25.70	-13.20	-25.75	51.58	V

EDGE(Ch 810)

Mesured output power: 25.84dBm = 0.384W, Limit: 43+10log₁₀(W)= 38.84dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBi)	CL(dB)	SG Reading	Result		
3819.60	54.45	12.75	19.50	-22.80	-29.55	55.39	H
5729.40	45.66	13.09	26.00	-13.80	-26.71	52.55	V



GSM850

GSM(Ch 128)

Mesured output power: 30.39dBm = 1.094W, Limit: 43+10log₁₀(W)= 43.39dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBd)	CL(dB)	SG Reading	Result		
1648.40	54.72	9.77	11.60	-40.10	-41.93	72.32	V
2472.60	54.00	10.49	14.80	-31.40	-35.71	66.10	V

GSM(Ch 190)

Mesured output power: 30.51dBm = 1.125W, Limit: 43+10log₁₀(W)= 43.51dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBd)	CL(dB)	SG Reading	Result		
1673.20	54.64	9.94	11.70	-40.70	-42.46	72.97	V
2509.80	52.58	10.62	15.00	-32.60	-36.98	67.49	V

GSM(Ch 251)

Mesured output power: 30.22dBm = 1.052W, Limit: 43+10log₁₀(W)= 43.22dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBd)	CL(dB)	SG Reading	Result		
1697.60	59.66	10.12	11.80	-34.90	-36.58	66.80	V
2546.40	53.31	10.68	15.10	-30.00	-34.42	64.64	V



GSM850 EDGE

GSM(Ch 128)

Mesured output power: 27.69dBm = 0.587W, Limit: 43+10log₁₀(W)= 40.69dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBd)	CL(dB)	SG Reading	Result		
1648.40	53.45	9.77	11.60	-41.30	-43.13	70.82	V
1673.20	49.00	10.49	14.80	-36.40	-40.71	68.40	V

GSM(Ch 190)

Mesured output power: 27.61dBm = 0.577W, Limit: 43+10log₁₀(W)= 40.61dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBd)	CL(dB)	SG Reading	Result		
1673.20	53.06	9.94	11.70	-42.20	-43.96	71.57	V
2509.80	50.87	10.62	15.00	-34.30	-38.68	66.29	V

GSM(Ch 251)

Mesured output power: 27.32dBm = 0.540W, Limit: 43+10log₁₀(W)= 40.32dBc

Frequency (MHz)	Receiver Reading(dBuV)	Correction Factor(dB)		EIRP(dBm)		dBc	Polarity
		AG(dBd)	CL(dB)	SG Reading	Result		
1697.60	54.23	10.12	11.80	-40.40	-42.08	69.40	V
2546.40	50.98	10.68	15.10	-33.40	-37.82	65.14	V



8. Frequency stability

8.1 Test Procedure

The frequency stability of the transmitter is measured by:

a) **Temperature:** The temperature is varied from -30 °C to +60 °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	2008-02-07
DC Power Supply	INTERACT	AK-3010	2008-03-02
Tem/Hum Chamber	Myung Technology	SM-150-2	2008-03-02



8.3 Test Results

PCS1900

Operting Frequency :	1,880,000,000
Channel :	661
Reference Voltage :	3.70
Deviatin Limit :	0.00025

Voltage (%)	Power (VDC)	Temperature (°C)	Frequency (Hz)	Deviation
100	3.70	+20 °C (Ref)	1,880,000,002	0.000000
100		-30	1,879,999,974	0.000001
100		-20	1,879,999,976	0.000001
100		-10	1,879,999,977	0.000001
100		0	1,879,999,978	0.000001
100		10	1,879,999,981	0.000001
100		20	1,880,000,002	0.000000
100		25	1,879,999,975	0.000001
100		30	1,879,999,978	0.000001
100		40	1,879,999,981	0.000001
100		50	1,879,999,976	0.000001
100		60	1,879,999,972	0.000002
85	3.15	20	1,879,999,971	0.000002
115	4.26	20	1,879,999,978	0.000001
Batt EndPoint	3.00	20	1,879,999,974	0.000001



GSM850

Operting Frequency :	836,600,000
Channel :	190
Reference Voltage :	3.70
Deviatin Limit :	0.00025

Voltage (%)	Power (VDC)	Temperature (°C)	Frequency (Hz)	Deviation
100	3.70	+20 °C (Ref)	836,600,003	0.000000
100		-30	836,599,974	0.000003
100		-20	836,599,976	0.000003
100		-10	836,599,983	0.000002
100		0	836,599,984	0.000002
100		10	836,599,976	0.000003
100		20	836,600,003	0.000000
100		25	836,599,980	0.000003
100		30	836,599,982	0.000003
100		40	836,599,975	0.000003
100		50	836,599,973	0.000004
100		60	836,599,978	0.000003
85	3.15	20	836,599,973	0.000004
115	4.26	20	836,599,981	0.000003
Batt EndPoint	3.00	20	836,599,974	0.000003